

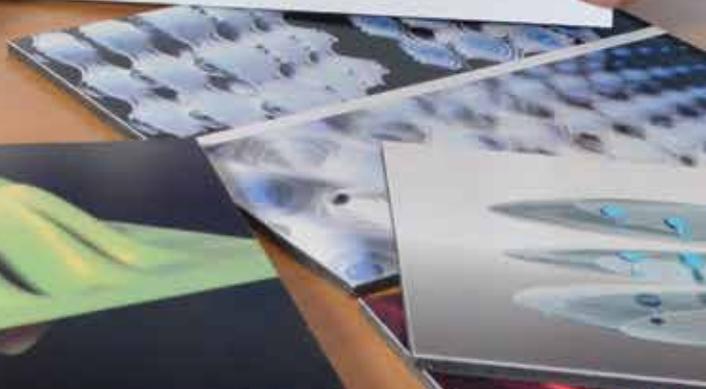


University of Colorado **Boulder**

2013-14

Catalog

*Redefining Teaching
& Learning*





Welcome to the CU-Boulder Catalog, 2013–14

THE 2013–14 UNIVERSITY OF COLORADO BOULDER CATALOG contains a summary of campus offerings, policies, and requirements; descriptions of colleges, schools, and individual departments; and degree requirements, course descriptions, and faculty listings as of February 2013. Students should refer to the degree, major, and certification requirements listed at the time they formally enter a program. For additional information, students should consult their dean's office. Because the catalog is compiled in advance of the academic year it covers, changes in programs and policies may occur. Up-to-date information may be obtained by consulting departmental advisors, checking departmental bulletin boards, visiting MyCUinfo (mycuinfo.colorado.edu), and reviewing registration materials distributed each semester. All catalog information is subject to change without notice or obligation.

About the Course Descriptions

The courses listed through the [Courses](#) tab above are offered on the Boulder campus during the 2013–14 academic year. This listing does not constitute a guarantee that any particular course will be offered during this year. Consult specific programs and major requirements within each school and college for more information. Also see the online Schedule Planner for details about course offerings.

Course Numbering

Always consult specific departments and programs within schools and colleges for restrictions, requirements, and prerequisites.

- 1000–2000 courses are usually intended for lower-division students (freshmen and sophomores).
- 3000–4000 courses are intended for upper-division students (juniors and seniors), and may require instructor's consent. Consult the

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University of Colorado Boulder

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3100 Marine St.

584 UCB

Boulder, Colorado 80309-0584

Managing editor and art director:

Polly Christensen, 303-492-8087 or

polly.christensen@colorado.edu

Web:

Jo Bertrand, Will Kubie, Matt Tucker, Kevin Crafts

Production management:

Denise Munn

Photography:

program or department for other restrictions.

- 5000-level courses usually require graduate-student status, but may be open to qualified undergraduates with instructor consent. Consult the program or department.
- Courses at the 6000, 7000, and 8000 level are usually open only to graduate students. Consult the program or department for restrictions.

Abbreviations

Coreq.—corequisite

Lab.—laboratory

Lect.—lecture

Prereq.—prerequisite

Rec.—recitation

CE/SL—civic engagement/service learning component

Nondiscrimination Statement

The University of Colorado Boulder does not discriminate on the basis of race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, or veteran status in admission and access to, and treatment and employment in, its educational programs and activities. The university takes affirmative action to increase ethnic, cultural, and gender diversity; to employ qualified disabled individuals; and to provide equal opportunity to all students and employees.

Glenn Asakawa, Casey A. Cass, and Patrick Campbell

[Other UCB Catalogs](#)

School of Law, Summer Session, Continuing Education, CAETE, and Independent Learning offer their own catalogs.

[Main Catalog Archive](#)

The archive of the university's main catalogs for previous years.

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General Information

University of Colorado History

AT ITS FIRST SESSION IN 1861, Colorado's territorial legislature passed an act providing for a university in Boulder. Between 1861 and 1876, Boulder citizens donated land south of town and made gifts from \$15 to \$1,000 to match the \$15,000 the state legislature appropriated for the university's construction. In 1875, Colorado citizens laid the cornerstone for the university's first building, Old Main, and officially founded CU in 1876, the same year Colorado joined the union. The university opened its doors the following year with 44 students, a president, and one instructor.



Today, the University of Colorado is a four-campus system that includes the University of Colorado Boulder, the University of Colorado Colorado Springs, the University of Colorado Denver, and the University of Colorado Anschutz Medical Campus. The campuses have a combined enrollment of about 60,000 students. To meet the needs of its students, the university system offers an extensive number of undergraduate, graduate, and professional degree programs, as well as opportunities to study abroad, engage in public service, and conduct research.

CU received sponsored program awards that include funding from the National Institutes of Health, the National Science Foundation and NASA. Sponsored research within the university system represents annual awards totaling more than \$813 million. Federal agencies are the principal sources of these funds for research and training contracts and grants, but the state of Colorado also provides appropriations for university operations, teaching, and research activities. CU also relies on revenues from tuition and fees, contracts and grants, investments and interest income, health services, and the generous support of private foundations and donors.

An elected nine-member Board of Regents governs CU and is charged by the state constitution with the general supervision of the university and the exclusive control and direction of all its funds and appropriations, unless otherwise provided by law. The board conducts its business at regular meetings open to the public and through committees. The president is the chief administrative officer and is responsible for providing leadership to the university.

For more information about the CU Board of Regents, go to www.cu.edu/regents; to learn more about the CU system, visit www.cu.edu.

Campuses

The Boulder Campus

Statutory Mission

CU-Boulder's vision is grounded in its statutory mission as a national public research university. In Colorado statute, the university is defined as the "comprehensive graduate research university with selective admissions standards . . . , offer(ing) a comprehensive array of undergraduate, master, and doctoral degree programs" of what is now designated the University of Colorado System.

CU-Boulder recognizes the exceptional opportunities associated with its role as a research university, and values the unique strength and character research achievements bring to undergraduate education. It is keenly aware of its responsibility for educating the next generation of citizens and leaders, and for fostering the spirit of discovery through research. Indeed, CU-Boulder believes that its students, both graduate and undergraduate, benefit from the comprehensive mix of programs and research excellence that characterize a flagship university. Thus, CU-Boulder's statutory mission is relevant today and will remain relevant tomorrow.

Since 2007, CU-Boulder's strategic plan, *Flagship 2030* (www.colorado.edu/flagship), has been guiding near-term actions and investments that will sustain CU's quality and competitiveness and, through visionary "flagship initiatives," will transform the university within the next quarter-century.

General Information about CU-Boulder

As a comprehensive university, CU-Boulder is committed to the liberal education of students via a broad curriculum ranging from the baccalaureate through the postdoctoral levels.

With an enrollment of more than 30,000 students, the University of Colorado Boulder is the largest campus in the four-campus system. The student population comes from every state in the nation and from more than 95 foreign countries. Many different ethnic, religious, academic, and social backgrounds are represented, fostering the development of a multicultural academic community that enriches each student's educational experience.

On the Boulder campus, the chancellor is the chief academic and administrative officer and is responsible for conducting campus affairs in accordance with the policies of the Regents, and overseeing the Athletic Department. Faculty participate in campus governance through the Faculty Senate and the Faculty Assembly. Students participate through the University of Colorado Student Government (CUSG) and the United Government of Graduate Students (UGGS).

CU-Boulder has over 1,100 tenure and tenure track faculty, with more than 98 percent holding doctorates or appropriate terminal degrees. The faculty includes nationally and internationally recognized scholars with many academic honors and awards, including several CU-Boulder research faculty from the National Snow and Ice Data Center who shared the 2007 Nobel Peace Prize with former Vice President Al Gore for their contributions to the international report of the Intergovernmental Panel on Climate Change; John Hall, winner of the 2005 Nobel Prize in physics; Carl Wieman and Eric Cornell, winners of the 2001 Nobel Prize in physics; Tom Cech, winner of the 1989 Nobel Prize in chemistry; and David Wineland, winner of the 2012 Nobel Prize in physics. Seven faculty have received MacArthur Fellowships, the so-called "genius grant." Twenty-five active or retired faculty are members of the National Academy of Sciences; 23 are included in the membership of the American Academy of Arts and Sciences; 17 are members of the National Academy of Engineering; and six are members of the National Academy of Education. Most faculty members, including full professors, teach both undergraduate and graduate classes. Faculty members incorporate their research and creative activities directly into instructional programs.

Research conducted at CU-Boulder is supplemented by research institutes devoted both to the advancement of knowledge in particular areas and to graduate training. Many of these institutes have developed international reputations.

To enhance its research capabilities and to provide collaborative opportunities with government and business, CU-Boulder developed a 200-acre research park east of the main campus. The park provides expanded room for research institutes and centers that work closely with university researchers.

The educational environment of a research university is characterized by a broad range of experiences in many different settings. While the classroom is the location for most instructional activities, laboratories, seminars, and field work also are important features of the undergraduate and graduate experience. Some programs encourage off-campus internships and training; study abroad programs also have gained popularity. For students whose interests cross traditional disciplinary lines, a number of interdisciplinary programs are available.

The Campus Setting

CU-Boulder is located at the foot of the Rocky Mountains, at an altitude of 5,400 feet. The Flatirons geologic formation is visible from nearly everywhere on campus. The climate is temperate, with generally pleasant days and cool evenings. On average, Boulder enjoys about 340 sunny or partly sunny days each year. The main campus covers 600 acres and includes about 200 buildings constructed of rough-cut Colorado sandstone with red tile roofs. The rural Italian (or Tuscan vernacular) architectural style evolved from a master plan developed by Philadelphia architect Charles Klauder in 1919. The Norlin Quadrangle, including the original Old Main building, is listed in the State and *National Register of Historic Places*. The campus has been noted as one of the most aesthetically pleasing in the country.

Boulder County encompasses five ecological zones, from 5,000 feet above sea level (plains grassland) to 14,000 feet (alpine tundra). Downtown Boulder is only 20 miles from the Continental Divide and boasts some of the most spectacular scenery in the United States. The city of Boulder, population 99,000, is committed to preserving its beautiful natural environment and is surrounded by 26,000 acres of open space.

Denver, the state's capital city, is 30 miles from Boulder. Denver offers the attractions and resources of a large metropolitan area and is accessible from Boulder by traveling on U.S. 36, also known as the Denver-Boulder Turnpike. Denver's international airport is served by most major carriers and is located approximately 60 minutes southeast of Boulder. Boulder and the Denver International Airport are connected by a public transportation system.

Undergraduate Enrollment and Graduation Rates

CU-Boulder's fall 2012 entering freshman class numbered 5,470. Of these, 46 percent were females, 56 percent residents of Colorado, and 22 percent members of minority groups (African Americans, Asian Americans, Hispanics, and Native Americans). Sixty-eight percent enrolled in the College of Arts and Sciences, 14 percent in the Leeds School of Business, 13 percent in the

College of Engineering and Applied Science, and 5 percent, combined, enrolled in the Program in Environmental Design, Journalism and Mass Communication Program, and the College of Music. About 10 percent of freshmen entering CU-Boulder transfer to another college or school within the university before they graduate.

Of the freshmen entering in summer or fall 2006 who enrolled full time, 42 percent graduated within four years; 63 percent graduated within five years; and 68 percent graduated within six years. Of the students who entered in fall 2011, 84 percent returned for their second fall semester.

CU-Boulder Academic Programs

The Boulder campus offers more than 3,600 different courses in approximately 150 fields of study. These courses represent a full range of disciplines in the humanities, the social sciences, the physical and biological sciences, the fine and performing arts, and the professions. CU-Boulder is accredited by the Higher Learning Commission and a member of the North Central Association (www.ncahigherlearningcommission.org; **800-626-7440** or **312-263-0456**). (See *individual colleges and schools for additional accreditation information*.)

For information on the content of academic programs and official degree designations, refer to the appropriate catalog sections. Additional graduate and professional programs are located on other campuses of the university.

Colorado Springs Campus

The University of Colorado Colorado Springs, located on Austin Bluffs Parkway in Colorado Springs, is one of the fastest growing universities in the nation. The university offers 30 bachelor's, 26 master's, and five doctoral degrees. The campus enrolls about 9,800 students annually. Schools and colleges on this campus include:

- College of Business and Administration
- College of Education
- College of Engineering and Applied Science
- Graduate School
- College of Letters, Arts, and Sciences
- Beth-El College of Nursing and Health Sciences
- School of Public Affairs

University of Colorado Denver

The University of Colorado Denver offers comprehensive programs for undergraduate, graduate, and health sciences students on the Denver Campus and on the Anschutz Medical Campus in Aurora. Students study in more than 130 degree programs across 13 schools and colleges.

The university awards more than 4,000 degrees each year and confers more graduate degrees than any other institution in the state. More than \$434 million in sponsored research awards came to University of Colorado Denver in 2011–12.

Denver Campus

Near the heart of downtown, the campus is conveniently located on the Auraria Campus with easy access to Denver's commercial and governmental hubs. Schools and colleges on this campus include:

- College of Architecture and Planning
- College of Arts & Media
- Business School
- School of Education & Human Development
- College of Engineering and Applied Science
- College of Liberal Arts and Sciences
- School of Public Affairs

Anschutz Medical Campus

The Anschutz Medical Campus in Aurora delivers a broad network of health care programs. In addition to University of Colorado Hospital, a number of renowned institutes are affiliated with the campus. The Anschutz Medical Campus presents state-of-the-art educational and research facilities with an adjoining biomedical park. Schools and colleges on this campus include:

- School of Dental Medicine
- School of Medicine
- College of Nursing

- School of Pharmacy
- Colorado School of Public Health
- Graduate School

University of Colorado Boulder

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Programs of Study

THE UNIVERSITY'S PROGRAMS OF STUDY listed below are organized by School or College; then program name (or major); then degrees, certificates, or minors when available. Names in blue link to the department or program page.

The university offers degree programs at the bachelor's, master's, and doctoral levels, and a juris doctor degree from the Law School. It also offers certificate programs at the undergraduate, graduate, and professional levels, and a variety of additional academic programs. The latest approved degrees may be found at the Office of Planning, Budget, and Analysis website at

<http://www.colorado.edu/pba/degrees/approve/OfficialCatalogApprovedDegreesList2013-14.htm>

CU-Boulder also provides dual-degree, double-degree, concurrent degrees, and interdisciplinary programs. Details may be found through the specific program of study in this catalog or by contacting the sponsoring department.

NOTE: In the tables below, the designation (MS) or (MA) indicates master's degree offered as part of the PhD program only. The IBA is the International Bachelor of Arts degree.

Arts & Sciences, College of

| | |
|--|---|
| Actuarial Studies and Quantitative Finance Certificate Program Actuarial Studies Certificate Quantitative Finance Certificate | certificate certificate |
| Anthropology | BA, IBA, MA, PhD |
| Applied Mathematics (see also <i>College of Engineering & Applied Science</i> below) | MS, PhD, minor |
| Art and Art History Art History Studio Arts | BA, MA BA, BFA, MFA |
| Asian Languages and Civilizations Chinese Japanese South Asian Languages and Civilizations Middle Eastern and Islamic Studies | MA, PhD BA, minor BA, minor certificate certificate |
| Asian Studies | BA |
| Astrophysical and Planetary Sciences Astronomy | (MS), PhD, minor BA, IBA |
| Atmospheric and Oceanic Sciences | MS, PhD, minor |
| British and Irish Studies | certificate |
| Central and East European Studies | certificate |
| Chemistry and Biochemistry Biochemistry Chemistry Chemical Physics | BA, IBA, (MS), PhD, minor BA, IBA, (MS), PhD, minor PhD |
| Classics | BA, MA, PhD, minor |

| | |
|--|---|
| Communication | BA, MA, PhD |
| Comparative Literature | MA, PhD |
| Computer Science <i>(see also Engineering & Applied Science below)</i> | BA |
| Distributed Studies | BA |
| Ecology and Evolutionary Biology | BA, IBA, MA, PhD, minor |
| Economics | BA, (MA), PhD, minor |
| English Creative Writing | BA, MA, PhD MFA, minor |
| Environmental Studies | BA, IBA, MS, PhD |
| Ethnic Studies Comparative Ethnic Studies | BA, minor PhD |
| Film Studies | BA, BFA |
| French and Italian French Italian | BA, MA, PhD, minor BA, minor |
| Geography | BA, IBA, MA, PhD, minor |
| Geological Sciences Geology Geophysics | BA, IBA, MS, PhD, minor PhD |
| Germanic and Slavic Languages and Literatures German Studies Hebrew Studies Nordic Studies (Scandinavian) Russian Studies | BA, MA, PhD, minor minor minor BA, minor |
| History | BA, MA, PhD, minor |
| Humanities | BA |
| Integrative Physiology | BA, IBA, MS, PhD |
| International Affairs | BA, certificate |
| INVST Community Studies | |
| Jewish Studies | BA, minor |
| Lesbian, Gay, Bisexual, Transgender, and Queer Studies | certificate |
| Linguistics | BA, MA, PhD, minor |
| Mathematics | BA, MA, PhD, minor |
| Molecular, Cellular, and Developmental Biology | BA, IBA, (MA), PhD |
| Museum and Field Studies Museology | MS certificate |
| Peace and Conflict Studies | certificate |
| Philosophy | BA, MA, PhD, minor |
| Physics <i>(see also Engineering & Applied Science below)</i> | BA, IBA, MS, PhD, minor |
| Political Science | BA, MA, PhD, minor |
| Psychology and Neuroscience Psychology Neuroscience | BA, IBA, (MA), PhD certificate |
| Religious Studies | BA, MA, minor |
| Sociology | BA, (MA), PhD |

| | |
|--|---|
| Spanish and Portuguese Spanish Portuguese | BA, MA, PhD minor |
| Speech, Language, and Hearing Sciences Audiology | BA, IBA, MA, PhD AudD |
| Theatre and Dance Theatre Dance | BA, BFA, MA, PhD BA, BFA, MFA, minor |
| Western American Studies | certificate |
| Western Civilization Studies | certificate |
| Women and Gender Studies | BA, minor, certificate |
| Writing and Rhetoric, Program for | |

Business, Leeds School of

| | |
|--------------------------------|---------------------------------------|
| Business Administration | BS, MS, MBA, PhD, certificates, minor |
|--------------------------------|---------------------------------------|

Education, School of

| | |
|---|---|
| Curriculum and Instruction | Post-BA licensure, MA, MA + licensure, PhD |
| Educational/Psychological Studies | MA, PhD |
| Research and Evaluation Methodology | PhD |
| Social, Multicultural, and Bilingual Foundations | MA, PhD |

Engineering & Applied Science, College of

| | |
|---|------------------|
| Aerospace Engineering Sciences | BS, MS, PhD |
| Applied Mathematics <i>(see also College of Arts & Sciences above)</i> | BS |
| Architectural Engineering | BS, MS, PhD |
| Chemical and Biological Engineering | BS |
| Chemical Engineering | BS, ME, MS, PhD |
| Civil Engineering | BS, MS, PhD |
| Computer Science <i>(see also College of Arts & Sciences above)</i> | BS, ME, MS, PhD |
| Electrical and Computer Engineering | BS |
| Electrical Engineering | BS, ME, MS, PhD |
| Engineering Management | ME, certificates |
| Engineering Physics <i>(see also College of Arts & Sciences above)</i> | BS |
| Environmental Engineering | BS |
| Materials Science and Engineering | MS, PhD |
| Mechanical Engineering | BS, ME, MS, PhD |
| Telecommunications | ME, MS, PhD |

Environmental Design, Program in

| | |
|-----------------------------|-------|
| Environmental Design | BEnvD |
|-----------------------------|-------|

Graduate School

Please see the complete listings of the Graduate School on their specific [Programs of Study](#) page.

Journalism & Mass Communication Program

| | |
|----------------------|--------|
| Journalism | BS, MA |
| Communication | PhD |

Law School

| | |
|------------------------------|-----------|
| Master of Laws Law | LLM JD |
|------------------------------|-----------|

Music, College of

| | |
|--|---|
| Music Arts in Music Music Education Musical Arts | BMus, MMus, PhD, certificates BAMus, certificates BMusEd, MMusED, certificates DMusA |
|--|---|

Other Academic Programs

| | |
|--|--|
| <ul style="list-style-type: none"> Continuing Education Leadership, Certificate in the Study and Practice of Leadership Residential Academic Program Library Research Norlin Scholars Program Preprofessional programs Presidents Leadership Class Reserve Officer Training Corps Technology, Arts & Media Program | |
|--|--|

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Colleges & Schools



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Graduate School

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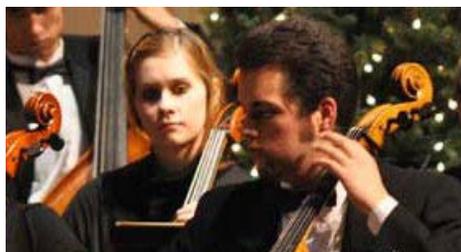


Journalism & Mass Communication Program

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Music, College of

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Undergraduate Admission

THE OFFICE OF ADMISSIONS WELCOMES inquiries from prospective students regarding undergraduate admission. Through the admission process, the university seeks to identify applicants who will successfully complete a collegiate academic program. Admission is based on many criteria, including high school GPA or GED test scores, high school rank, the quality of course work, college entrance test scores, personal essays, and the extent to which the [minimum academic preparation standards \(MAPS\)](#) have been met.

Inquiries relating to undergraduate admission to the University of Colorado Boulder may be addressed to:

Office of Admissions, Regent Administrative Center 125, University of Colorado Boulder,
552 UCB, Boulder, CO 80309-0552
303-492-6301 • TTY 303-492-5998 (for hard of hearing persons)

To find additional admission information online, go to admissions.colorado.edu/undergraduate.

For admission requirements to graduate degree programs, see the [Graduate School](#) section and individual college and school sections.



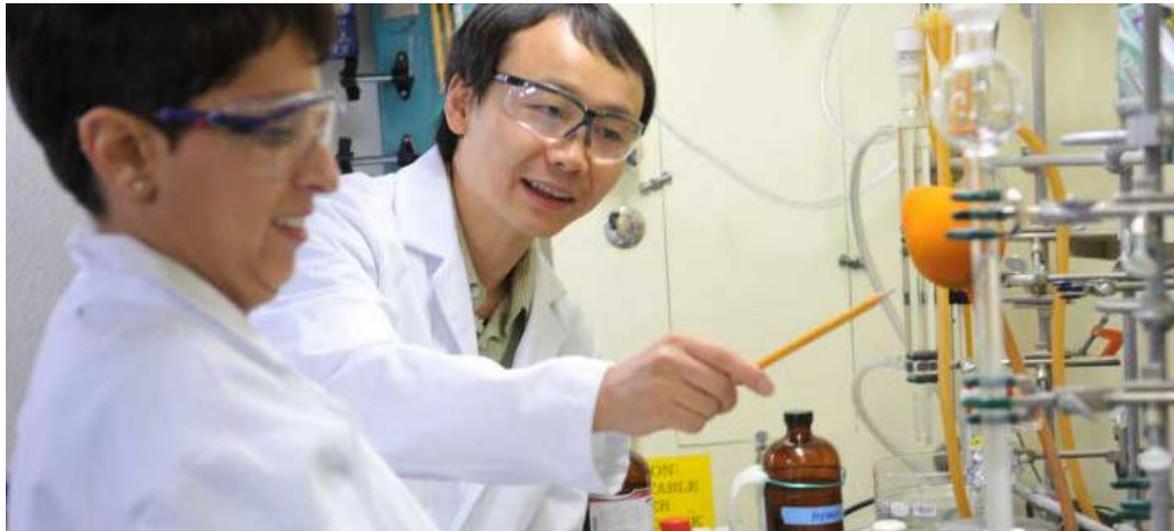
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Graduate Admission



GRADUATE SCHOOL ADMISSION is handled by individual academic departments; see the department or specific graduate program for details. For more information, go to admissions.colorado.edu/graduate and also see the [Graduate School](#) section of this catalog.

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[School of Education](#)

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Actuarial Studies and Quantitative Finance Certificate Program

The Actuarial Studies and Quantitative Finance Certificate Program is an interdisciplinary program provided by the Departments of Mathematics, Applied Mathematics, and Economics; and the Leeds School of Business. The program trains students in two tracks. The **Actuarial track** prepares students for the actuarial profession while the **Quantitative Finance track** trains students for financial and economics analyst positions. The admission policies and contact information are given for each track.

← Certificate Program

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Anthropology

Anthropology is the study of people, both ancient and modern, in their cultural context. The field involves a global look at human cultures from prehistoric times to the present, integrating findings from the social sciences, natural sciences, and humanities. Students of anthropology learn to appreciate the variety of cultures throughout human history and to understand the meaning of human biological and cultural development as well as diversity.

The undergraduate degree in anthropology emphasizes knowledge and awareness of:

- basic methods, concepts, alternative theories and approaches, and modes of explanation appropriate to each of the three main subfields of the discipline (archaeology, biological anthropology, and cultural anthropology);
- basic archaeological techniques, including stratigraphy, dating, and inference of human behavior from archaeological data, as well as human history from its beginning through the emergence of complex societies;
- variation, patterning, and creativity in human communities and symbolic systems, including ecological, social structural, and cultural factors exemplified in a diverse array of the world's societies, including those undergoing change as a result of globalization and the impact of contemporary social and political movements; and
- theories of primate and human evolution and the basic data of the hominid fossil record, as well as biological variation in contemporary human populations.

In addition, students completing the degree in anthropology are expected to acquire the ability and skills to:

- identify trends or patterns in anthropological data from different cultures or periods, identify an appropriate context of explanation or interpretation, and formulate a testable explanation or reasonable interpretation, including the ability to identify data that constitute credible evidence for an explanation or interpretation; and
- identify and define a significant problem or topic in anthropology and analyze and interpret data in a systematic manner.

Course code for this program is ANTH.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Applied Mathematics

The Department of Applied Mathematics in the College of Arts and Sciences offers courses and degree programs for undergraduate and graduate students. Course offerings at the undergraduate level focus on providing students with the mathematical tools and problem-solving strategies that are useful in science and engineering. The undergraduate bachelor of science degree is offered through the College of Engineering and Applied Science.

The department offers a range of courses and research opportunities in many areas, including computational mathematics, mathematical biology, nonlinear phenomena, physical applied mathematics, and probability and statistics. Each of these areas is described below.

Computational Mathematics

The study of computational mathematics has grown rapidly in recent years and has allowed scientists and engineers to answer questions and to develop insights not possible just a decade or two ago. Modern computational methods require in-depth knowledge of a variety of mathematical subjects including linear algebra, analysis, ordinary and partial differential equations, asymptotic analysis, elements of harmonic analysis, and nonlinear equations. Since computers are invaluable tools for an applied mathematician, students are expected to attain a high level of computer literacy and to gain a substantial knowledge of operating systems and hardware. Computational mathematics courses include the study of computational linear algebra, optimization, numerical solution of ordinary and partial differential equations, solution of nonlinear equations, and advanced seminars in wavelet and multiresolution analysis and in multigrid methods, radial basis functions, and algorithm design and development, more generally.

Mathematical Biosciences

Advances in our ability to quantitatively study biological phenomena have provided a number of exciting opportunities for applied mathematicians. The careful modeling, analysis, and simulation of these systems using the standard and state-of-the-art tools of applied mathematics has led to novel and non-intuitive insights into biology. Furthermore, deeper understanding of the inherently complex and multiscale nature of biological systems, in many cases, requires the development of new mathematical tools, techniques, and methodologies (a challenge to which applied mathematics is particularly well suited). For students interested in pursuing research in mathematical biology, good preparatory classes would include differential equations, advanced calculus, numerical analysis, and probability and statistics, as well as supplemental courses in the appropriate biological, biomedical, or bioengineering fields. Research areas at CU encompass immunology, virology, bacteriology, population genetics, and cardiac nonlinear dynamics. Specifically, current topics of interest include model selection and control of in vivo HIV pathogenesis dynamics, modeling of intracellular calcium dynamics, the analysis of heart rhythm instabilities, the role of aggregation and fragmentation in bacteremia and bacterial pneumonia, inverse problems arising in the use of population genetics and bioinformatics to identify geographic features, and the analysis of patterns in biological sequences such as DNA and RNA.

Dynamical Systems and Nonlinear Phenomena

In recent years, there has been an explosion of interest in the study of nonlinear waves and dynamical systems with analytical results, often motivated by the use of computers. The faculty in the Department of Applied Mathematics are actively and intensively involved in this growing field. Research areas include qualitative analysis and computational dynamics, conservative and dissipative systems, bifurcation theory, the onset and development of chaos, wavelets and multiresolution analysis, integrable systems, solitons, cellular automata, analytic dynamics, pattern formation and symmetry, synchronization, dynamics on networks, fluid dynamics, transport and mixing, and the study of nonlinear phenomena arising from the interactions of many interconnected dynamical units. Department courses in this field include dynamical systems, nonlinear wave motion, and many advanced seminars. Suitable background courses are analysis, computation, and methods in applied mathematics. Valuable supplemental courses include mechanics and fluid dynamics.

Physical Applied Mathematics

Physical applied mathematics is a term that generally refers to the study of mathematical problems with direct physical application. This area of research is intrinsically interdisciplinary. In addition to mathematical analysis, it requires an in-depth understanding of the underlying applications area, and usually requires knowledge and experience in numerical computation. The department has approximately 40 affiliated faculty who can direct thesis research in areas such as atmospheric and fluid dynamics, theoretical physics, plasma physics, genetic structure, parallel computation, etc. The department's course requirements are designed to provide students with a foundation for their study (analysis and computation). The department also requires supplemental courses in one of the sciences or engineering fields necessary for thesis research in physical applied mathematics.

Statistics and Applied Probability

Almost all natural phenomena in the technological, biological, physical, and social sciences have random components with complex levels of interactions, part stochastic, part deterministic. Applied

probability is the application of probabilistic and analytic methods to model, understand, and predict the behavior of real-life problems that involve random elements. Statistics is the science of using data that typically arise from the randomness inherent in nature to gain new knowledge. Areas of current interest by applied math and their affiliated faculty include optimization of stochastic networks; the study of stochastic processes, and stochastic differential equations in hydrology and telecommunications; probabilistic models, nonparametric regression methods, shrinkage estimation, gene expression microarray data analysis, false discovery rate control, classification methods, and statistical tests based on these models, in genetics and RNA sequencing; and extreme value theory in estimation of maximal wind speeds. Appropriate course work includes analysis, stochastic processes, simulation techniques, mathematical statistics, as well as background courses in one of the sciences or engineering fields in which one intends to do research.

For details on the range of courses and research opportunities available through the Department of Applied Mathematics, visit amath.colorado.edu.

Course code for this program is APPM.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

+ Dual Degree Programs

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Art and Art History

The Department of Art and Art History offers the bachelor of arts in art history and in studio, and the bachelor of fine arts in studio arts.

The undergraduate degree in art history emphasizes knowledge and awareness of:

- the major artistic monuments of the world in a historical context;
- varied methodologies used to study art historically; and
- artistic media and techniques.

In addition, students completing the degree in art history are expected to acquire the ability and skills to:

- relate individual monuments to their historical and cultural context by identifying technique, style, and subject matter;
- interpret historical and critical information about works of art, artists, and related issues; and
- organize and communicate concepts and data pertaining to the history of art effectively in written and oral form.

The undergraduate degree in studio art emphasizes knowledge and awareness of:

- the significance of the major monuments in art history, with an emphasis on contemporary art;
- at least one discipline of studio art;
- related critical issues in studio practice; and
- a wide range of stylistic approaches.

In addition, students completing a degree in studio art are expected to acquire the ability and skills to:

- analyze their own works of art in terms of form and content;
- interpret the work of others;
- execute ideas in one or more artistic media;
- demonstrate artistic ability and technical proficiency in one chosen medium; and
- communicate in verbal and written form the particular conceptual and perceptual attitudes and stances of their own artistic production.

Course codes for these programs are ARTS, ARTF, and ARTH.

[+ Bachelor's Degree Program\(s\)](#)

[+ Concurrent Bachelor's/Master's Program](#)

[+ Graduate Degree Program\(s\)](#)

[+ Dual Degree Programs](#)

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Asian Languages and Civilizations

Undergraduate students may choose to major in either Chinese or Japanese. In either case they receive a thorough grounding in the modern language, an introduction to the classical language and literature, and a broad familiarity with the literary and cultural history of the selected area.

Before registering for specific courses, students should consult with a departmental advisor concerning appropriate placement in language classes. Also, students interested in Chinese or Japanese are encouraged to broaden their career options through a double major, combining either language with another field of interest. Recent graduates have found positions in such fields as government service, international business, and secondary-school teaching; others have gone on to graduate study in Chinese or Japanese.

Course codes for these programs are EALC, ARAB, CHIN, FRSI, HIND, INDO, JPNS, KREN, and TBTN.

- + Bachelor's Degree Program(s)
- + Concurrent Bachelor's/Master's Program
- + Graduate Degree Program(s)
- + Dual Degree Programs
- + Certificate Program

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Asian Studies

The Center for Asian Studies offers a broad interdisciplinary undergraduate major in Asian studies. In addition, a number of departments offer graduate training with an emphasis on Asia.

Students planning to major in Asian studies may participate in study abroad programs with prior approval from the Asian Studies Program and the Office of International Education.

For additional information on the major program, contact Tim Weston at weston@colorado.edu or **303-735-5122**.

Course code for this program is ASIA.

+ Bachelor's Degree Program(s)

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Astrophysical and Planetary Sciences

The undergraduate major has two tracks—one in general astronomy and one in astrophysics/physics (see the website at aps.colorado.edu).

The track in general astronomy is designed to meet student needs for basic, undergraduate training in space sciences (astronomy, astrophysics, planetary sciences, and space physics). Undergraduates are prepared for both academic research assistant careers and the industrial market (aerospace, computer software, instrumentation, and other technical areas) as well as for science education, science journalism, and space policy. This track provides a liberal arts degree in the science of astronomy, observations, and technology as well as core training in astronomical sciences and mathematics, applied physics, and computational and instrumental technology for professions in the space sciences. The track can focus on observations (ground-based telescopes, rocket probes, space-borne observatories) or on K–12 science education, for which astronomy provides excellent science content for motivating young students. It also offers broad training for careers in science policy and science writing.

The bachelor's degree track in astrophysics/physics is directed toward students interested in pursuing graduate studies in astrophysics by focusing on multidisciplinary work in physics and mathematics together with astronomy. Graduates are provided with scientific and technological training in the space sciences, including mathematical, physical, computational, and instrumental expertise. An honors thesis or other research work is encouraged.

Specific goals for both programs are to provide:

- both theoretical and practical knowledge of astronomy and astrophysics at a level comparable to the best programs at other major U.S. public institutions. The Department of Astrophysical and Planetary Sciences is one of the few programs that combines both astrophysics and planetary science, providing a unified view of space sciences, the solar system and comparative planetology, stellar and galactic astronomy, and cosmology.
- courses and significant hands-on experience with telescopes, optics, instrumentation, as well as data analysis and image processing and numeric modeling. These skills are useful for students wishing to pursue graduate degrees or careers in aerospace, technical, or computer industries.
- opportunities for faculty-advised research and senior (honors) theses.

Course code for this program is ASTR.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Atmospheric and Oceanic Sciences

The Department of Atmospheric and Oceanic Sciences (ATOC) is an interdisciplinary program that provides an educational and research environment to examine the dynamical, physical, and chemical processes in the atmosphere, ocean, and land surface, and the manner in which they interact. A major theme is the establishment of a physical basis for understanding, observing, and modeling climate and global change.

Although an undergraduate degree program is not yet offered in ATOC, an undergraduate minor program is available. A total of 18 credit hours is required for the minor, including 9 elementary ATOC credit hours and 9 advanced ATOC credit hours. A full list of approved courses for the minor is available online and in the ATOC administrative offices.

Graduate students admitted to ATOC are eligible to receive an advanced degree in atmospheric and oceanic sciences. Graduate students outside of ATOC can pursue the Graduate Certificate in Atmospheric and Oceanic Sciences while earning a graduate degree from another department at CU-Boulder, or while taking course work as a non-degree-seeking student through Continuing Education's ACCESS Program provided they have already earned a bachelor's degree and meet the course prerequisites. In addition, students inside and outside the department may pursue a Graduate Certificate in Oceanography. For more information on graduate certificate programs, see the Graduate School/Interdisciplinary Programs section.

For more information about ATOC programs and application procedures, call the ATOC office at **303-492-6633** or visit atoc.colorado.edu.

Course code for this program is ATOC.

ATOC Undergraduate Minor Program

The Department of Atmospheric and Oceanic Sciences (ATOC) does not offer an undergraduate bachelor's degree program. However, the department does offer an undergraduate minor for students pursuing a bachelor's degree in another academic department. The ATOC minor is offered through the College of Arts and Sciences and is noted on the official CU transcript.

Although the ATOC minor is primarily designed for students who are interested in developing a knowledge base in atmospheric science with an emphasis on the Earth's climate, there is considerable latitude within the program for students to design a course of study that is tailored to their individual interests.

Course Requirements. A total of 18 credit hours with at least 9 credit hours at the advanced course work level. NOTE: Not all courses at the 3000 level and above are considered to be at the advanced course work level. Please see list below.

Required Courses and Semester Credit Hours

Elementary

- ATOC 1050 Weather and the Atmosphere—3
- ATOC 1060 Our Changing Environment—3
- ATOC/GEOL 3070 Intro to Oceanography—3
- ATOC 3300 Analysis of Climate and Weather Observations—3

Advanced

- ATOC 3500/CHEM 3151 Air Chemistry and Pollution—3
- ATOC 3600/ENVS 3600/GEOG 3601 Principles of Climate—3
- ATOC/ASTR 3720 Planets and Their Atmospheres—3
- ATOC/ASEN 4215 Descriptive Physical Oceanography—3

- ATOC 4500 Special Topics—3
- ATOC 4700 Weather Analysis and Forecasting—3
- ATOC 4720 Intro to Atmospheric Dynamics—3
- ATOC 4750 Desert Meteorology—3
- ATOC 4800 Policy Implications of Climate Controversies—3
- ATOC 4900 Independent Study—3

All course work applied to the minor must be completed with a grade of C- or better (no *pass/fail* work may be applied). The GPA for all minor degree work must be equal to 2.000 (C) or higher. Course work applied toward a minor may also be applied toward general education (core curriculum or college list) and major requirements. Students are allowed to apply no more than 9 credit hours, including 6 advanced level credit hours, of transfer work to a minor.

➤ Graduate Degree Program(s)

➤ Certificate Program

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British and Irish Studies

The Center for British and Irish Studies encourages students to develop programs that include a focus on British and Irish culture, history, and contemporary life from a variety of disciplinary perspectives. At the undergraduate level, the center offers a certificate in British and Irish studies for students who have taken 24 credit hours in British and Irish literature, history, and/or other fields.

For graduate students, it offers occasional interdisciplinary seminars. These offer exposure to methods and sources outside the students' own departments and provide preprofessional training in presenting research. The center has funds for acquiring research materials for dissertation research, and offers travel fellowships for graduate students.

For more information, contact the Center for British and Irish Studies at jeremy.smith@colorado.edu. For more information go to www.colorado.edu/artssciences/british.

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Central and East European Studies

Students who seek in-depth, interdisciplinary knowledge of the region are encouraged to pursue the certificate in Central and East European Studies (CEES). The certificate program offers students the opportunity to explore the culture, history, and politics of the nations of central and eastern Europe from a variety of disciplinary perspectives.

The purpose of the certificate program is to enhance, rather than to replace, the department major. Students work with CEES faculty advisors to plan an appropriate certificate program. The certificate is issued by the dean of the College of Arts and Sciences, and is awarded in addition to a bachelor's degree in another field.

Contact the director of Central and East European Studies, Professor Elizabeth Dunn at **303-492-5388** for information.

Course code for this program is CEES.

[+ Certificate Program](#)

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Chemistry and Biochemistry

The undergraduate degree in chemistry and biochemistry emphasizes knowledge and awareness of:

- the basic principles of chemistry—atomic and molecular theory, reactivities and properties of chemical substances, and the states of matter;
- the basic subfields of chemistry—organic, physical, analytical, and inorganic chemistry (and biochemistry for biochemistry majors);
- mathematics sufficient to facilitate the understanding and derivation of fundamental relationships and to analyze and manipulate experimental data;
- the basic principles of physics (and for biochemistry majors, knowledge of biology); and
- safe chemical practices, including waste handling and safety equipment.

In addition, students completing the degree in chemistry or biochemistry are expected to acquire the ability and skills to:

- read, evaluate, and interpret information on a numerical, chemical, and general scientific level;
- assemble experimental chemical apparatus, design experiments, and use appropriate apparatus to measure chemical composition and properties (for biochemistry students, this includes properties of proteins, nucleic acids, and other biochemical intermediates); and
- communicate results of scientific inquiries verbally and in writing.

Course code for this program is CHEM.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

+ Certificate Program

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Classics

Through consultation with the undergraduate advisor, the bachelor's degree in classics is tailored to the student's interests in the field. Major and minor programs can be arranged with a concentration in either Latin or Greek or a combination of the two, with a focus on classical literature, culture, and thought (including mythology, literature, philosophy, religion, art, archaeology, and history) or with a particular emphasis on classical history, art, and archaeology. Prospective majors and minors should consult with the undergraduate advisor and review the departmental list.

The undergraduate degree in classics emphasizes knowledge and awareness of:

- the fundamental outlines of the history of Greek and Roman literature, from Homer to the end of classical antiquity;
- the historical and cultural contexts of particular works; and
- the art, religion, and philosophy of ancient Greece and Rome and their roles in world cultural history.

In addition, students completing the degree in classics are expected to acquire the ability and skills to:

- read, understand, and interpret written documents and works of literature in ancient Greek or Latin where relevant, as well as in translation;
- communicate in spoken and written form with adequate clarity and complexity for the relevant audience; and
- read and think critically.

Interested students are encouraged to consult www.colorado.edu/classics/undergrad for more information.

Course code for this program is CLAS.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

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Communication

The bachelor of arts in communication provides analytic work from both humanistic and social-scientific perspectives, and practical work to improve communication performance in various kinds of situations.

The undergraduate degree in communication emphasizes knowledge and awareness of:

- the history and development of communication as an object of scholarly study, including both the humanistic and social-scientific traditions;
- the basic contexts in which communication is enacted (e.g., interpersonal, group, organizational, and public contexts);
- the various processes of interaction within these contexts;
- the basic methods of investigating questions about communication;
- the ethical issues and responsibilities of communication practice;
- the diversity of communication styles associated with gender and cultural differences; and
- the uses and implications of communication technology.

In addition, students completing the degree in communication are expected to acquire the ability and skills to:

- express ideas in an informed, coherent, and effective manner, particularly the ability to articulate and develop a sustained argument, both orally and in writing;
- analyze, criticize, and evaluate messages and interactions in a variety of practical contexts, both orally and in writing; and
- adapt messages and negotiate interactions responsibly in diverse and changing situations.

There are optional programs in which students are encouraged to participate such as study abroad, internships, and graduating with honors.

Graduate study in communication examines problems of human interaction and relationship, participation and collaboration, and deliberation, dialogue, and decision making in personal relationships, workplace and institutional contexts, and community and public life. The master's program provides students with knowledge of selected bodies of communication scholarship and develops their skills in analyzing complex communication situations for a range of professional positions in business, nonprofit institutions, and other types of community groups, and for doctoral study in communication. The doctoral program provides students with opportunities to conduct theoretically grounded, practically useful research that crosses traditional academic boundaries and that prepares them to assume faculty positions in universities, as well as in research and training programs in business, government, and social service agencies.

Course code for this program is COMM.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)



Comparative Literature

The Comparative Literature Graduate Program enables students to study the production, reception, and interpretation of written texts and related media from a comprehensive perspective involving at least two national literatures. Comparative literature has long crossed national linguistic frontiers. The discipline today questions the very basis of such boundaries, exploring the construction of national literatures, languages, and traditions and, insofar as this can be read in and out of verbal and other media, of nations and national consciousness itself. Extending its reflections on limits still further and in dialogue with other disciplines, the interpretive perspectives of comparative literature are not only crossdisciplinary, multi-media, and multilingual, but global. The aim is to analyze the world's cultures both as expressions of the various interdependent histories that have framed them, and as manifestations of the multifacetedness inscribed in the different forms by which human beings shape and communicate their experience. These forms can range from a single literary genre, period, movement, or tradition to larger concepts and constructs such as gender, sexuality, theory, or culture. Areas of analysis may also include authorship and the literary work, literacy, genre, literary history, and the canon. Students wishing to pursue graduate work in comparative literature should read the guidelines for the MA and PhD degrees in this field, which are available at complit.colorado.edu.

Course code for this program is COML.

[+ Graduate Degree Program\(s\)](#)

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Distributed Studies Program

Admission to the distributed studies track requires completion of 60 credits or more and permission from the dean's office. The distributed studies track is intended for students who have accumulated a significant number of credit hours toward the completion of one or more majors and are not eligible to continue in those majors.

An individually structured track also is available in the distributed studies program. Students pursuing the individually structured track must write and defend a thesis based on original scholarly or creative work.

For more information, contact the College of Arts and Sciences Academic Advising Center in Woodbury 109.

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Ecology and Evolutionary Biology

Ecology seeks to understand the processes that control the abundance and distribution of organisms and how they interact with one another in a changing environment. Evolutionary biology provides a unifying conceptual framework for all of biology, including the characteristics of organisms and biological diversity. Taken together, ecology and evolutionary biology form a fundamental, broad, diverse, and interdisciplinary area of scientific inquiry. Study in both areas is necessary for understanding the complex biological issues of today, including fighting diseases, understanding of the responses of life and humankind to Earth's changing environment, and learning how species develop, thrive, and decline. Also, ecology and evolutionary biology are working toward solving some of the world's most demanding problems, including sustainability and the future of life on earth, human health and welfare, and wise stewardship of our planet. Students majoring in Ecology and Evolutionary Biology (EBIO) apply scientific approaches to issues in ecology and evolution, with an emphasis on critical evaluation of the literature, generating and testing hypotheses, designing and carrying out experiments to test predictions, and articulating, in oral or written form, the results of investigations.

In light of the broad importance of ecology and evolution for fundamental understanding of living systems, the undergraduate EBIO degree emphasizes knowledge and problem-solving in areas of:

- the ecology of organisms, populations, and communities
- the distribution and function of terrestrial, freshwater, and marine ecosystems
- principles and patterns of evolution, including natural selection and the history of life on Earth
- comparative, systematic, evolutionary, and environmental aspects of botany, microbiology, and zoology
- adaptation of organisms to the physical and biotic environment
- animal behavior and emotion
- molecular evolution and population genetics
- developmental biology and the evolution of development
- conservation biology and management of ecosystems
- the relevance of mathematics, chemistry, and physics to biology
- the development of biological thought
- infectious disease ecology
- landscape and ecosystem ecology
- sustainability and human-nature systems
- energy and biofuels
- Darwinian medicine
- health and population genetics
- genetically engineered organisms

EBIO majors include students who:

- have strong and compelling interests in the natural world and who are interested in making a difference
- are interested in pursuing advanced graduate degrees in science, especially biology
- want careers in the areas of natural resources management, environmental consulting, environmental law, environmental science, science teaching and scientific journalism, among other professions
- are passionate about making a difference in the lives of others by improving their physical and mental health
- are interested in many different areas of biology, from the molecular to ecosystem levels
- are fascinated with the complexity and diversity of nature

A bachelor of arts (BA) degree in EBIO provides excellent training, education, and experience, preparing students for many successful careers and for admission to and success in graduate study or medical school and other health professions:

- because ecology and evolution are subjects of central importance for understanding the ways all organisms live, grow and survive—everything from microbes to humans
- because the department and its classes provide students a broad learning experience in the biological sciences
- because the department's faculty provide EBIO majors with excellent classes and research opportunities

Course code for this program is EBIO.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

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Economics

The undergraduate degree in economics emphasizes knowledge and awareness of:

- the conditions for efficiency in free market production and exchange;
- contemporary theories concerning economic growth, inflation, unemployment, distribution of income, and international environment;
- specialized fields of economics, such as international economics and finance, natural resources and environment, the economics of gender and discrimination, and public economics;
- the descriptive statistics commonly used by economists; and
- the institutional characteristics of the U.S. economy, and how these differ from those in other economies.

In addition, students completing the degree in economics are expected to acquire the ability and skills to:

- apply the tools of microeconomic theory to reach sound conclusions for simple economic problems;
- follow arguments concerning macroeconomic theory, to distinguish between sound and fallacious reasoning, and understand how differences in policy prescription may arise;
- perform statistical analysis such as multiple regression and understand similar analyses performed by others; and
- communicate economic reasoning in writing, understand similar writing by others, and appreciate the diversity of views that may reasonably exist about economic problems.

Course code for this program is ECON.

+ Bachelor's Degree Program(s)

+ Areas of Emphasis

+ Graduate Degree Program(s)

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English

The undergraduate degree in English emphasizes knowledge and awareness of:

- canonical and non-canonical works of English and American literature;
- the history of British and American literature;
- literary theories, including recent theoretical developments; and
- the social and historical contexts in which the traditions developed.

In addition, students completing the degree in English are expected to acquire the ability and skills to:

- analyze literary texts;
- interpret texts on the basis of such analysis;
- relate analyses and interpretations of different texts to one another; and
- communicate such interpretations competently in written form.

The undergraduate degree in creative writing emphasizes knowledge and awareness of:

- literary works, including the genres of fiction, poetry, playwriting, and screenwriting, and the major texts of contemporary writers;
- literary history, including the origins and development of genres, major writers of the past, and the role of the writer in society; and
- literary analysis, including theories of literary composition and critical theory.

In addition, students completing the degree in creative writing are expected to acquire the ability and skills to:

- write in various poetic modes and styles;
- write in various fictive styles;
- write in various nonfiction styles; and
- evaluate other students' written work.

Course code for this program is ENGL.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)





Environmental Studies

The interdisciplinary Environmental Studies major is administered through the Environmental Studies Program and draws courses from 16 departments and four colleges on the CU-Boulder campus. The major teaches the integration of science, policy, and values as applied to environmental issues. Students acquire an awareness of the complexity of factors relating to human interaction with the environment. They become acutely aware that environmental problems have both human and biophysical components, and they gain knowledge of the general principles of human-environmental interaction, global habitability, environmental change, and sustainable human societies.

To complete the ENVS major, students take foundational courses in sciences, policy, ethics, economics, writing and math, as well as an internship or field course, and a capstone course. Fifteen credit hours of "specialization" courses are required, allowing students to focus in one content area such as climate and energy, natural resources, or sustainable development.

See the program website at envs.colorado.edu/undergrad_program/C31/curriculum for details of the program requirements and current courses.

Course code for this program is ENVS.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

+ Dual Degree Programs

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Ethnic Studies

The ethnic studies major was created to initiate and promote interdisciplinary research and teaching in Africana studies, American Indian Studies, Asian American studies, Chicana and Chicano studies, American studies, and cross cultural/comparative studies.

The discipline of ethnic studies comprises a series of distinct approaches and theoretical analyses of the historical, political, social, and cultural forces and phenomena that have shaped the development of America's diverse racial and ethnic peoples. This approach begins with an overview and understanding of these group experiences prior to the time of the European invasion, and continues with a subsequent and primary analysis of the impact that race and ethnicity has had in America during the past 500 years.

The ethnic studies major provides a broad liberal arts education to all students. It imparts fundamental skills in critical thinking, comparative analysis, and oral and written expression. The major provides appropriate training especially for those considering admission to graduate or professional schools and careers in education, law, medicine, public health, school work, journalism, business, urban planning, politics, counseling, international relations, creative writing, as well as university teaching and research.

The Department of Ethnic Studies has a core faculty of its own, but also draws on the faculty resources of many departments in the College of Arts and Sciences, as well as the College of Architecture and Planning, the School of Education, the School of Journalism and Mass Communication, the School of Law, the College of Music, and University Libraries.

Study Abroad

The Department of Ethnic Studies encourages students to participate in the study abroad programs offered through the Office of International Education. These programs give students a deeper understanding of culture and attitudes of people of color in other parts of the world and their carryover into the United States. CU-Boulder partners with several study abroad organizations that offer summer, semester, and full year programs in many locations around the world, most notably in Africa, Asia, and Latin America. Programs of special interest include study abroad in Mexico, Dominican Republic, Peru, Bolivia, Ecuador, Ghana, Morocco, Spain, Taiwan, Japan, Australia, and South Africa.

For additional information, contact the Office of International Education. Students should always consult with their academic advisor prior to choosing their study abroad program.

Course code for this program is ETHN.

- [+ Bachelor's Degree Program\(s\)](#)
- [+ Graduate Degree Program\(s\)](#)
- [+ Certificate Program](#)

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Film Studies

The Film Studies Program educates students in the history and development of film as an art form and contemporary medium. The curriculum instills an informed analytic awareness of the ways in which film has been used and provides the resources for significant creative exploration of the medium.

The undergraduate degrees in film studies emphasize knowledge and awareness of:

- the major artistic contributions to the evolution of film, from the advent of the moving image to the present;
- the general outlines of world film from the silent period to the present, with emphasis on the historical contributions of major national cinemas; and
- film criticism and film theory.

Students completing either the BA or the BFA degree in film studies are expected to acquire the ability and skills to:

- analyze and interpret films critically;
- communicate such interpretations competently in essay form; and
- make a short creative film or video work (BFA majors only).

NOTE: Admission to any class after the third meeting of the class is contingent on professor permission. The department may drop a student from a class if the student misses the first two classes of the semester.

Course code for this program is FILM.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

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French and Italian

French

Beyond providing mastery of the language skills (listening, speaking, reading, writing) of modern French needed for all purposes of daily life, the major introduces students to a central tradition of western and world culture. Since the Middle Ages, French literature, thought, taste, and art have helped shape the essential experience and self-understanding of humanity at large. Survey courses and upper-division seminars offer a range of exposures to the French cultural past and the far-flung ethnic and national diversity of the French-speaking present. The major explores distinctively French contributions to world culture, such as Arthurian romance, troubadour poetry, and Gothic architecture; the love sonnets of the Pléiade, the comic novels of Rabelais, and the essays of Montaigne; the neoclassical theatre of Corneille, Molière, and Racine and the critical philosophy of Descartes and Pascal; the Enlightenment philosophies of Voltaire, Diderot, and Rousseau; the psychological refinements of French fiction from Mme de La Fayette to Proust; artistic revolutions like impressionism and surrealism; the renewal of artistic conventions in the Theatre of the Absurd, the New Novel, and the cinema of the New Wave; the French-language literature of Africa, Canada, and the Caribbean; and the vital presence of French writers in major movements of 20th century thought like existentialism, structuralism, feminism, psychoanalysis, and contemporary cultural studies and multiculturalism.

The undergraduate degree in French emphasizes knowledge and awareness of:

- the fundamental outlines of the history of French literature from the Middle Ages to the present;
- significant works of French literature and the literary culture of the French-speaking world;
- the historical context in which particular works were written and the relation between literature and other forms of cultural expression (e.g., art, philosophy, politics, religion);
- contemporary French culture, politics, and current events;
- a range of literary genres, their development and reception, and relevant critical methodologies; and
- the grammatical structure of modern standard French.

In addition, students completing the degree in French are expected to acquire the ability and skills to:

- speak and understand modern, spoken standard French sufficient for all purposes of daily life and for intellectual discussion in academic settings;
- read and write modern standard French with sufficient fluency and correctness for successful literary or linguistic analysis of French texts;
- analyze and interpret literary texts in terms of style, plot, structure, characters, themes, and the use of literary devices;
- communicate such analyses and interpretations simply in French or at a more sophisticated level in English, and discuss a wide range of topics concerning French culture, civilization, and current events; and
- follow with reasonable comprehension French broadcasts or film.

Italian

The major provides the language skills (listening, speaking, reading, writing) of modern Italian needed for all purposes of daily life. Moreover, by combining courses offered by the faculty of the Department of French and Italian with courses of Italian interest taught in other units, including film studies, fine arts, and history, the program promotes an understanding of the role of the Italian literary and cultural tradition within western civilization at large. As the birthplace of Dante, Petrarca, Boccaccio, Ariosto, Tasso, Marino, Michelangelo, Raphael, and Da Vinci, Italy is the cradle of the Renaissance. Italy projects a powerful, formative influence into our own day through the work of 19th- and 20th century writers like Leopardi, Manzoni, Pirandello, Levi, and Calvino; operatic composers like Rossini, Puccini, and Verdi; philosophers and critics like Croce, d'Annunzio, Gramsci, and Ginzburg; and filmmakers like Fellini, Pasolini, and Bertolucci. Thus, in addition to supplying the necessary background for advanced professional study and specialization, the Italian major introduces students to a rich literary, artistic, and intellectual history at the roots of the modern world.

Students wishing to major in Italian are required to have a thorough advising session with the Italian program advisor. In this session the student program of study is outlined in detail. Students are required to see the advisor in the event that any of their major courses are canceled so that substitutions and revisions in their programs can be made. The department will not approve a major in

Italian unless the student has been advised by the program advisor.

For courses in other departments with an Italian emphasis (e.g., comparative literature, fine arts, history, honors, etc.), see those sections.

The undergraduate degree in Italian emphasizes knowledge and awareness of:

- the fundamental outlines of the history of Italian literature from the Middle Ages to the present;
- significant works of Italian literature and the contribution to world literature of Italian letters;
- the historical context in which particular works were written;
- contemporary Italian culture, politics, and current events;
- a range of literary genres, their development and reception, and relevant critical methodologies; and
- the grammatical structure of modern standard Italian.

In addition, students completing the degree in Italian are expected to acquire the ability and skills to:

- speak and understand modern, spoken, standard Italian sufficient for all purposes of daily life and for intellectual discussion in academic settings;
- read and write modern standard Italian with sufficient fluency and correctness for successful literary or linguistic analysis of Italian texts;
- analyze and interpret literary texts in terms of style, plot structure, characters, themes, and the use of literary devices;
- communicate such analyses and interpretations simply in Italian or at a more sophisticated level in English, and discuss a wide range of topics concerning Italian culture, civilization, and current events; and
- follow with reasonable comprehension authentic Italian broadcasts or film.

Course codes for these programs are FREN and ITAL.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

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Geography

The Department of Geography offers theoretical and practical work in physical geography, including climatology, hydrology, geomorphology, and biogeography; conservation of natural resources, including environmental education; human geography, including urban, social, economic, political, cultural, and population geography; geographic information science (GIS), including spatial analysis using GIS, remote sensing, computer cartography, GIS and society, and geography education; and regional analysis, including mountains, natural hazards, and specific regional courses. To complement its curriculum, the department offers internship opportunities to geography majors.

The Department of Geography offers BA, MA, and PhD degree programs in geography.

The undergraduate degree in geography emphasizes knowledge and awareness of:

- the unique contributions of the discipline to understanding the spatial components of problems and the diverse factors relating to human interaction with the environment;
- the spatial distributions of physical and human characteristics on the Earth surface, the general patterns these form, and the processes that have created and are changing these patterns;
- the major themes of geographical analysis, including absolute and relative location; human and physical characteristics of place; human and environmental relations; movement of people, ideas, and products; and regionalization; and
- the general geographical principles of human-environment interaction, global change, and human spatial organization.

In addition, students completing the degree in geography are expected to acquire proficiency in:

- one or more of the specific geographic skill areas of cartography, remote sensing, and geographic information systems;
- writing, quantitative methods, computer literacy, and library and field methods of data collection; and
- identifying the geographic dimensions of a problem and analyzing, synthesizing, and evaluating relevant data, and applying geographic principles offering a geographic perspective on that problem.

MAPS (Minimum Academic Preparation Standards)

To fulfill a MAPS deficiency in geography, students may take any one of the following courses: GEOG 1982, 1992, 2002, or 2412, or pass the Geography Exemption Exam. For more information on the exemption exam, contact Testing Services at **303-492-5854** or careerservices.colorado.edu/testing.cs.

The course code for this program is GEOG.

➤ Bachelor's Degree Program(s)

➤ Graduate Degree Program(s)

➤ Certificate Program





Geological Sciences

The options available in the undergraduate program in geological sciences are geology, geophysics, and environmental geosciences. Each option leads to the BA degree. All of these options provide a strong basis for understanding the functioning of the Earth system and a firm foundation for graduate study and professional employment. Students who are uncertain as to which option best suits their needs should contact a departmental advisor or faculty member. In all options, the undergraduate program emphasizes course work in theoretical, laboratory, and field-oriented aspects of the geological sciences. The nearby Rocky Mountains provide a natural laboratory for many of these courses.

Students interested in the geological sciences may also wish to consider the Baker Residential Academic Program. Students who do not wish to pursue a career in the geosciences, or who would like to combine a basic knowledge of geologic sciences with that of some other field, should consider using geological sciences as one subject in a distributed studies major or as a minor. Students who intend to pursue graduate study in the geological sciences are encouraged to consider developing an honor thesis as part of their undergraduate studies.

The three options available in the undergraduate major offer different focus areas of instruction. All three options offer excellent preparation for students interested in pursuing professional careers, or graduate study, in the geological sciences.

Each option emphasizes knowledge in:

- the ways in which Earth responds to internal and external forces; the physical, chemical, and biological evolution of Earth; and the nature of the materials of which the Earth is made
- the role of physics, chemistry, mathematics, and biology in understanding geological processes
- the history of discoveries and ideas that have contributed to our current knowledge of the Earth and the planetary system

The geology option is a traditional geology degree program that emphasizes the following:

- the mineralogy and petrology of igneous, metamorphic, and sedimentary rocks
- the processes of sedimentation and the applications of stratigraphy and paleobiology in the reconstruction of Earth history
- the role of geophysics and geochemistry in understanding the nature of Earth and its history
- the study of faults, folds, and other rock structures and the tectonic processes that create those structures
- the methods used in the field to map and interpret the diverse variety of rock types and structures

The environmental geoscience option emphasizes the following:

- the function of the integrated Earth system including the atmosphere, hydrosphere, biosphere, and geosphere
- the fundamental controls on surface Earth processes including energy balance, hydrology, geomorphology, geochemistry, and biogeochemistry
- the role of humans in the Earth system

The geophysics option emphasizes:

- applications of fundamental mathematical formulations and physical principles to an understanding of the Earth
- methods utilized to map and characterize those portions of the planet that lie below the surface, from just beneath our feet down to the core

Course code for this program is GEOL.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Germanic and Slavic Languages and Literatures

Undergraduate students may choose to major in either German studies or Russian studies. The department also offers courses in Hebrew studies and a minor in Nordic studies.

The major in **German studies** is an interdisciplinary program focusing on study of the German language, its manifestations in history, and its usage in the current cultural and social context; the literary, artistic, and philosophical aspects of German culture in the past and the present; the major historical events and developments in Germany and its neighboring countries, and the current political institutions and dynamics in Germany within the broader European framework.

The undergraduate degree in German studies emphasizes knowledge and awareness of:

- the fundamental outlines of German history and culture;
- the history of modern German literature, 1750 to the present;
- cultural developments in modern German-speaking Central Europe, such as the arts, the cinema, and architecture; and
- central issues such as the Nazi era and the Holocaust, the roles of women, German attitudes toward non-Germans, German culture after reunification, and their reflection in German literature, arts, and media.

In addition, students completing the degree in German studies are expected to acquire the ability and skills to:

- read German at a level at which critical literary and cultural analyses can be performed;
- write and speak German sufficiently to participate in critical discussions and write critical essays; and
- speak and comprehend German sufficiently for all situations in daily life, especially the business and professional sectors of German life.

The major in **Russian studies** is an interdisciplinary program focusing on study of the current cultural and social context, and the literary, artistic, and historical aspects of Russian culture in the past and present. The aim of the language curriculum is to equip students to read, write, speak, and understand Russian on a level allowing communication with natives and other users of the language. Before registering for a course, students should consult with a departmental advisor concerning appropriate placement.

Students interested in Russian studies should consider a double major in order to increase their career opportunities. Prospective teachers might combine Russian studies with a major in another foreign language, while those preparing for a career in government, business, or social services should benefit from a combination of Russian studies and a social science or business major. Students structure their curriculum according to the departmental checklist for majors, in close consultation with a departmental advisor.

The undergraduate degree in Russian studies emphasizes knowledge and awareness of:

- the fundamental outlines of the history of Russian literature and culture from the Middle Ages to the present day;
- the major Russian creative writers of the 19th and 20th centuries;
- the historical context of Russian literature and culture; and
- basic critical methodologies as they relate to the study of Russian literature.

In addition, students with a degree in Russian studies are expected to acquire the ability and skills to:

- comprehend contemporary Russian, written or spoken, to a degree permitting sophisticated analysis of cultural texts;
- analyze Russian literary texts and give a reasoned response to them in literate English; and
- write and converse in Russian at their own intellectual level.

Course codes for these programs are GRMN, GSLL, HEBR, NORW, RUSS, SCAN, and SWED.

- Bachelor's Degree Program(s)
- Concurrent Bachelor's/Master's Program
- Graduate Degree Program(s)
- Dual Degree Programs
- Certificate Program

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History

Course code for this program is HIST.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Humanities

Humanities is an interdepartmental major that offers an interdisciplinary and comparative approach to the study of the arts within their historical and cultural context. As a direct result of its encouragement of interdisciplinary approaches to the analysis and interpretation of literature, music, film, art, and modern media, humanities offers an opportunity for students and faculty to pursue a wide variety of approaches to these areas.

Humanities is committed to a profoundly comparative perspective enabling students and faculty to bring together not only different arts, but works drawn from different eras and cultures, Western and non-Western alike.

The undergraduate degree in humanities emphasizes knowledge and awareness of:

- the ways cultures and traditions define both themselves and each other;
- the formal, rhetorical, and ideological properties of cultural texts in a variety of forms and media (literature, history, philosophy, film, music, visual arts, architecture, dance, theatre, performance);
- the dynamic relationships between texts and their social and historical contexts;
- the genres and modes of texts and their production, transformation, and reception; and
- the theoretical and ideological underpinnings and implications of one's own and others' interpretive approaches and assumptions.

In addition, students completing the degree in humanities are expected to acquire the ability and skills to:

- analyze and interpret texts in a variety of forms and media;
- articulate such analyses and interpretations at a sophisticated level in both written and oral forms;
- discern similarities and differences among individual works, artistic media, historical periods, and cultural traditions;
- reason critically; and
- explore the connections between contemporary issues and academic work.

Course code for this program is HUMN.

[+ Bachelor's Degree Program\(s\)](#)

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Integrative Physiology

Physiology is the field of biology that deals with function in living organisms. The academic foundation of the department is the knowledge of how humans and animals function at the level of genes, cells, organs, and systems. Our multidisciplinary curriculum requires students to take foundational courses in anatomy, biochemistry, mathematics, physics, physiology, and statistics. With this basic knowledge, students can undertake a flexible curriculum that includes the study of biomechanics, cell physiology, comparative physiology, endocrinology, immunology, exercise physiology, and neurophysiology. The department also encourages student participation in research.

Students completing a degree in integrative physiology are expected to acquire the ability and skills to:

- Read, evaluate, and synthesize information from the research literature on integrative physiology;
- Observe living organisms and be able to understand the physiological principles underlying function;
- Be able to interpret movement and performance data from laboratory measurements; and
- Communicate the outcome of an investigation and its contribution to the body of knowledge on integrative physiology.

These goals are achieved by providing a curriculum that comprises required courses and elective experiences. The required courses establish the foundation of knowledge for the discipline, whereas the elective courses provide opportunities to extend this knowledge on selected topics. The elective courses include seminars, critical thinking classes, independent study, and research projects on such topics as applied exercise science, biochemical basis of performance, cellular and systemic cardiovascular physiology, comparative physiology, developmental neurobiology, ecophysiology, environmental and comparative endocrinology, genetics of substance abuse, mechanics and neural control of locomotion, molecular behavioral genetics, molecular neurogenetics, motor behavior, neurophysiology of movement, neuroimmunophysiology, reproductive endocrinology, sleep and chronobiology, and vascular biology. More detailed information is available at www.colorado.edu/intphys.

Course code for this program is IPHY.

- + Bachelor's Degree Program(s)
- + Concurrent Bachelor's/Master's Program
- + Graduate Degree Program(s)

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International Affairs

With the increasing importance of world issues to the United States, employment opportunities in government, international organizations, and business continue to expand. Today there is an urgent need for college graduates with a strong background in international affairs. To meet this need, the University of Colorado offers a comprehensive and flexible interdisciplinary program in international affairs leading to the BA degree.

The undergraduate degree in international affairs emphasizes knowledge and awareness of:

- major political, economic, social, and cultural problems facing the international community, including international economic relations, world population, and resource utilization
- the international political system in the broadest global context, international organizations and alliances, and foreign political systems and processes
- ethical issues involved in international relations
- patterns of conflict and cooperation among nations and peoples
- chief historical factors that give rise to existing international institutions and processes
- problems and issues in United States foreign policy

In addition, students completing the degree in international affairs are expected to acquire the ability and skills to:

- analyze an international problem from a political, economic, historical, and cultural perspective
- read, critically evaluate, and synthesize information obtained from international affairs literature
- analyze international phenomena critically
- communicate, orally and in writing, findings to other students of international affairs and to a broader audience

Course code for this program is IAFS.

[+ Bachelor's Degree Program\(s\)](#)

[+ Certificate Program](#)

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INVST Community Studies

Consistent with their vision for a just and sustainable world, INVST Community Studies program develops engaged citizens and leaders who work for the benefit of humanity and the environment. INVST Community Studies innovatively operates as a community-based organization, practicing service learning and participatory education. In order to fulfill this mission, the program offers:

- a comprehensive two-year Community Leadership Program (CLP) focused on developing community leaders who engage in compassionate action as a lifetime commitment;
- Community Studies electives that foster civic responsibility and leadership potential;
- a Public Achievement Program for local primary and secondary school students; and
- a Youth Council for Public Policy that empowers young people to use the democratic process as a tool for positive social change.

The INVST CLP is the flagship program that offers a unique and transformational educational experience to all majors. Each year the INVST CLP admits a small group of students who are committed to making a positive difference with their lives. The two-year program is designed to cultivate deep understanding about issues facing people and the planet, and to provide skills and experiences for community leaders to fulfill progressive visions for change. Specifically, students participate in theory classes, skills-training classes, and two summer service-learning experiences, one domestic and one international. In addition, students intern six hours each week with community-based organizations during their first academic year, and collectively design, implement, and evaluate community leadership projects during their second academic year. Students learn and serve together in a small group environment throughout the program. Applications for the INVST CLP are due every year in February. For more information, call **303-492-7719**.

Course code for this program is INVS.

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Jewish Studies

The Program in Jewish Studies explores Jewish culture, history, society, and thought from a broad, interdisciplinary perspective. The program reflects the core goals of Colorado's flagship university: to provide an outstanding liberal arts education, to foster critical thought, and to instill a keen appreciation of humanity's interrelatedness and diversity. At its core, the major trains students to be global citizens by studying the world's oldest global people.

With a major in Jewish Studies, students will develop fundamental skills in critical thinking, comparative analysis, oral and written expression, and a well-rounded perspective of the diversity of the Jewish experience. CU-Boulder's major in Jewish Studies is designed to encourage students to explore all facets of Jewish life in the context of the larger global society. With internationally acclaimed faculty engaged in cutting-edge research and opportunities to study with leading artists, scholars, and professionals working in the field of Jewish Studies, the program offers an innovative and contemporary curriculum designed to provide a strong foundation in cultural education and to connect Jewish thought and text to action and people's lives.

As a major, students will have the opportunity to take courses that explore Jewish history, modern Jewish experience in a variety of countries and cultures, Jewish literature, and secular Jewish societies. Courses are offered on a wide array of topics and issues including Jewish culture, the history of the Arab/Israeli conflict, the Holocaust, gender and sexuality in Judaism, Israeli literature, the history of Yiddish culture, and cultures of Israel and Palestine. The study of Jewish culture, society, history, and religion is, by its nature, comparative. This program offers many cross-listed classes with other departments on campus to facilitate a well-rounded learning experience. **The program is open to students of all backgrounds.**

Course code for this program is JWST.

[+ Bachelor's Degree Program\(s\)](#)

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Lesbian, Gay, Bisexual, Transgender, and Queer Studies

Course code for this program is LGBT.

➔ Certificate Program

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Linguistics

Linguistics is the study of all aspects of human language: how languages make it possible to transmit ideas and feelings; how and why languages are similar and different; how we develop different styles and dialects; what will be required for computers to understand and produce spoken language; and how languages are used in everyday communication as well as in formal settings. Linguists try to figure out what it is that speakers know and do by observing the structure of languages, the way children learn language, slips of the tongue, conversations, storytelling, the acoustics of sound waves, and the way people's brains react when they hear speech or read. Linguists also reconstruct prehistoric languages, and try to deduce the principles behind their evolution into the thousands of languages of the world today.

The major in linguistics is useful for careers involving cognitive science, computer science, psychology, international business, language teaching, advertising, publishing, law, and documentation. Double majors and minors are encouraged with language, computer science, psychology, communication, sociology, anthropology, international affairs, philosophy, and education.

The core of the major is a set of courses, taught in the Department of Linguistics, on the nature of language. In addition, the major requires language courses offered by other departments (except for fluent speakers of languages other than English).

The undergraduate degree in linguistics emphasizes knowledge and awareness of:

- the fundamental architecture of language in the domains of phonetics and phonology, morphology and syntax, and semantics and pragmatics;
- the diversity of languages structures;
- the main interactions between language, culture, and society, including the role of language as a cultural institution and the social functions of language diversity; and
- the approaches to the study of language that are used by a discipline other than linguistics.

In addition, students completing the degree in linguistics are expected to acquire the ability and skills to:

- demonstrate proficiency in a second language equivalent to the third-year university level;
- infer language structures from the analysis of data from unfamiliar languages; and
- give coherent general interpretations of common language phenomena in terms of language structure and language use.

Course codes for this program are LING and ESLG.

[+ Bachelor's Degree Program\(s\)](#)

[+ Concurrent Bachelor's/Master's Program](#)

[+ Graduate Degree Program\(s\)](#)



Mathematics

The undergraduate degree in mathematics emphasizes knowledge and awareness of:

- basic real analysis of one variable;
- calculus of several variables and vector analysis;
- basic linear algebra and theory of vector spaces;
- the structure of mathematical proofs and definitions; and
- at least one additional specialized area of mathematics.

In addition, students completing a degree in mathematics are expected to acquire the ability and skills to:

- use techniques of differentiation and integration of one and several variables;
- solve problems using differentiation and integration;
- solve systems of linear equations;
- give direct proofs, proofs by contradiction, and proofs by induction;
- formulate definitions;
- read mathematics without supervision; and
- utilize mathematics.

Course code for this program is MATH.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

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Molecular, Cellular, and Developmental Biology

The undergraduate degree in molecular, cellular, and developmental biology emphasizes knowledge and awareness of:

- the biological sciences in general and detailed understanding of currently important aspects of cellular biology, molecular biology, biochemistry, genetics, and developmental biology; and
- the relationship of the specialty area to broader areas of science and to society in general, including ethical issues raised by current biological research and by the rapid growth of biotechnology as an important shaping force for the future.

In addition, students completing the degree in molecular, cellular, and developmental biology are expected to acquire the ability and skills to:

- learn detailed laboratory procedures rapidly when the need arises;
- demonstrate a scientific vocabulary and an understanding of research methods that permits the comprehension of articles from current journals, extraction of pertinent information, and judgment of the quality of the work described;
- evaluate a biological problem, determine which aspects are understood, and apply basic research methods and techniques to the unknown aspects; and
- communicate scientific concepts and analytical arguments clearly and concisely, both orally and in writing.

Course code for this program is MCDB.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Museum and Field Studies

Museum courses listed in this catalog may be taken with the approval of the student's major department and the course instructor, although no undergraduate major is offered in museum studies. A graduate professional certificate in Museum and Field Studies is offered to graduate students in other disciplines. Please see the [Graduate School](#) listing for additional information.

Graduate training in anthropology, art history, history, botany, entomology, paleontology, and zoology is provided under the direction of museum faculty in cooperation with cognate departments and the museum and field studies program. Areas of study include, but are not limited to:

- anthropological interpretation
- diatom taxonomy, systematics, and ecology
- southwestern archaeology and ethnology
- plant taxonomy, evolution, and phytogeography
- vertebrate paleontology and Cenozoic stratigraphy
- biology of aquatic invertebrates
- systematics and population biology of insects of the Rocky Mountain Region
- plant–insect interactions

Museum assistantships include support from the Walker Van Riper fund and research support from the Collie and William Henry Burt museum funds. Other financial assistance is available to selected students. Students interested in working toward advanced degrees under the direction of museum faculty should write the University of Colorado Museum, Museum and Field Studies, University of Colorado Boulder, 218 UCB, Boulder, CO 80309-0218, e-mail mfsinfo@colorado.edu, or visit cumuseum.colorado.edu/MFS.

Course code for this program is MUSM.

➤ Graduate Degree Program(s)

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Peace and Conflict Studies

The Certificate Program in Peace and Conflict Studies (PACS) is designed to help students explore why conflict and violence occur and learn how conflict can be managed and transformed to accomplish constructive ends. The certificate is granted by the dean of the College of Arts and Sciences, but students in any school or major at the University of Colorado may earn it.

The program takes an interdisciplinary perspective to the study of conflict, cooperation, war, and peace. Course work from various departments focuses on personal and social change, intra- and international conflicts, processes of conflict resolution, creative nonviolent activism, and the analysis of violence of various forms. The program encourages hands-on, "in the field" learning of peace and conflict issues through volunteer and internship placements with a wide variety of peace, justice, and development agencies.

For information or application go to the program's website: www.colorado.edu/peacestudies.

Course code for this program is PACS.

[Certificate Program](#)

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Philosophy

The undergraduate degree in philosophy emphasizes knowledge and awareness of:

- some of the principal philosophical texts in the history of western philosophy, from its beginnings in Greece to the late 19th century;
- some of the main currents in 20th century philosophy, including some acquaintance with contemporary philosophical issues and modes of inquiry;
- a single major author or a single philosophical movement; and
- elementary formal logic.

In addition, students completing the degree in philosophy are expected to acquire the ability and skills to:

- form reasoned opinions about the issues—moral, religious, political, etc.—that educated people debate;
- understand, analyze, and evaluate complex arguments and theories;
- distinguish between the main thrust of an argument or position and what is ancillary to it;
- discover and critically examine the underlying presuppositions of major systems of ideas or programs for action;
- see important connections between different systems of ideas or programs for action;
- explain difficult ideas and concepts in an informed, effective, and coherent manner;
- develop a thesis and present a coherent argument for it;
- write a clear and coherent essay; and
- engage in rational and productive discussion of issues and arguments.

Course code for this program is PHIL.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

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Physics

The undergraduate degree in physics emphasizes knowledge and awareness of:

- the basic subfields of physics (classical mechanics, electricity and magnetism, quantum mechanics, statistical mechanics, and thermodynamics), as well as at least one specialty area of application (e.g., solid state physics or optics);
- the major principles of physics, their historical development, and the roles they play in the various subfields of physics;
- the interrelations between theory and observation, the role of systematic and random experimental errors, and methods used to analyze experimental uncertainty and compare experiment with theory;
- physical phenomena and experience in the use of basic experimental apparatus and measuring instruments;
- mathematics sufficient to facilitate the acquisition and application of physical principles; and
- the importance of physics in other fields such as chemistry, biology, engineering, medicine, and in society at large.

In addition, students completing the degree in physics are expected to acquire the ability and skills to:

- apply physical principles to new situations;
- construct and assemble experimental apparatus, conduct and analyze measurements of physical phenomena, analyze properly experimental uncertainty, and make meaningful comparisons between experiment and theory; and
- communicate results of scientific inquiries verbally and in writing.

Course code for this program is PHYS.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

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Political Science

The Department of Political Science offers instruction and research in the art and science of politics. Work within the department is organized around six basic fields: American government and politics, comparative politics, international relations, public policy, political theory, and empirical theory and methodology.

At the most general level, the goal of the undergraduate curriculum in political science at the University of Colorado Boulder is to offer students the opportunity to develop an appreciation of politics and government and of the students' roles within them.

The undergraduate degree in political science emphasizes knowledge and understanding of the following:

- the values and beliefs that constitute the Western political tradition, as well as alternative ideologies and belief systems;
- the institutions and processes of the American political system and its strengths and weaknesses in the 21st century;
- other political systems, both Western and non-Western, which are members of the world community, our allies and competitors in international relations, and through comparative analysis offering a source of insight into American society and politics;
- the patterns of interaction among members of the world community, the causes of war and peace, and the sources of international conflict and cooperation; and
- the domestic and international policy issues facing the United States and the world community and the ability to make reasoned judgments—integrating facts and values, means and ends—regarding policies to address those problems.

In addition, students completing the degree in political science are expected to acquire the ability and skills to:

- evaluate conflicting arguments, assemble and present empirical evidence, and make reasoned conclusions from the evidence available; and
- communicate effectively, both orally and in written form.

Students interested in political science may want to consider the [Global Studies Residential Academic Program](#).

Course code for this program is PSCI.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Psychology and Neuroscience

At the undergraduate level, this department offers a major in psychology and a track in neuroscience. Psychology is a broad discipline that seeks to understand human cognition, emotion, and behavior. It is also an applied field that is concerned with testing perception, psychopathology, inheritance of complex behavioral traits, mental health, memory, and social factors that influence behavior. Neuroscience is the study of the mechanisms of nervous system—the brain, the spinal cord, and networks of sensory nerve cells, or neurons. Neuroscientists work to describe how neural circuits transmit signals and process different types of information. The principles of neuroscience are derived from the application of methods from many scientific disciplines, including molecular and cellular biology, biochemistry, physiology, structure, and computational modeling. Note that no terminal master's degree is offered except for the concurrent BA/MA program in cognitive psychology.

Students contemplating postgraduate education, either in professional or in graduate school, are encouraged to participate in the departmental honors program, which provides special opportunities for individualized attention.

CU-Boulder's Department of Psychology and Neuroscience has been ranked by the National Academy of Sciences as one of the best in the country with respect to the quality of the faculty and their scholarly productivity. Moreover, the department offers undergraduates a wide range of opportunities for involvement in research.

Course codes for this program are PSYC and NRSC.

- + Bachelor's Degree Program(s)
- + Concurrent Bachelor's/Master's Program
- + Graduate Degree Program(s)
- + Certificate Program

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Religious Studies

The curriculum in religious studies includes the study of traditions such as Buddhism, Christianity, Confucianism, Daoism, Hinduism, Islam, Judaism, and Native American and other traditional religions. The program examines topics such as ritual studies, peace studies, dance, religion and literature, women and religion, and religion and psychology.

The undergraduate degree in religious studies emphasizes knowledge and awareness of:

- the academic study of religion and the related writing and critical skills directed toward one area of concentration (tradition, issue, or theme); and
- different theoretical and methodological approaches to the study of religion.

In addition, students with a degree in religious studies are expected to acquire the ability and skills to:

- identify textual, performative, and artifactual data relevant to the study of religion;
- draw connections between different historical and/or cultural contexts of religion; and
- communicate data analysis and interpretation competently in written form.

Course codes for this program are RLST and SNSK.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

+ Dual Degree Programs

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Sociology

The undergraduate degree in sociology emphasizes knowledge and awareness of:

- the basic data, concepts, theories, and modes of explanation appropriate to the understanding of human societies;
- the structure of modern American society, its social stratification, its ethnic, racial, religious, and gender differentiation, and its main social institutions—family, polity, economy, and religion;
- the basic social processes that maintain and alter social structure, especially the processes of integration, organization, and conflict; and
- the diversity of human societies, including the differences between major historical types such as foraging, agricultural, industrial, and post-industrial societies.

In addition, students completing the degree in sociology are expected to acquire the ability to:

- locate and consult works relevant to a sociological investigation and write a sociological paper that is coherent, cogent, and grammatically correct;
- understand the basic procedures of sociological research and analyze sociological data;
- understand and interpret the results of sociological research; and
- integrate and evaluate sociological writings.

Course code for this program is SOCY.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

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Spanish and Portuguese

Although no major in Portuguese alone is offered, the department offers a combined Spanish and Portuguese Language and Culture degree option (see the Spanish Majors section below), as well as a Portuguese minor. Language courses at the elementary and intermediate levels are also available, as well as senior and graduate courses in Luso-Brazilian civilization and literature.

The department has identified the following as educational outcomes for the three tracks within the Spanish major.

The undergraduate degree in Spanish language and literature emphasizes knowledge and awareness of:

- the fundamental outlines of the history of Spanish literature or of Spanish American literature;
- the major creative writers in either Spanish or Spanish American literature;
- basic critical methodologies in the study of poetry, drama, narrative fiction, and nonfiction; and
- the social and historical contexts in which particular literary traditions developed.

In addition, students completing the degree in Spanish language and literature are expected to acquire the ability and skills to:

- read sophisticated Spanish texts at a level at which literary analysis can be performed;
- write and speak Spanish sufficiently to participate in critical discussions and write critical essays;
- analyze and interpret literary texts in terms of themes, characters, structure, style, and overall textual strategies;
- relate analysis and interpretations of different texts to one another; and
- communicate such interpretations competently in written form in Spanish.

The undergraduate degree in Spanish and Portuguese language and culture emphasizes knowledge and awareness of the same topics listed in the degree in Spanish Language and Literature, but specifies electives and related field courses, focusing on the Luso-Brazilian culture and adding knowledge of the Portuguese language.

The undergraduate degree in international Spanish for the professions emphasizes knowledge and awareness of:

- modern business practices as applied to the Spanish-speaking world;
- the theories of economics, business law, and international trade and finance;
- fundamental business Spanish terminology;
- the cultural environment in which business is conducted in the Spanish-speaking world;
- basic business according to the canons of this discipline; and
- international relationships.

In addition, students completing the degree in international Spanish for the professions are expected to acquire the ability and skills to:

- read and interpret in cultural and business-related terms sophisticated Spanish texts concerning business transactions;
- write and speak Spanish sufficiently to communicate effectively on business-related issues, be involved in critical discussions, and write critical essays on the subject;
- analyze a particular business problem to place it in a relevant context and formulate an appropriate response; and
- adequately translate business-related documents.

Course codes for this program are SPAN and PORT.

[+ Bachelor's Degree Program\(s\)](#)

[+ Concurrent Bachelor's/Master's Program](#)

[+ Graduate Degree Program\(s\)](#)

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Speech, Language, and Hearing Sciences

The undergraduate program in speech, language, and hearing sciences (SLHS) introduces concepts basic to human communication, and provides opportunities for students to acquire an understanding of normal and disordered speech, language, and hearing processes. The curriculum for the undergraduate degree in SLHS has been designed to fulfill the prerequisite requirements for entrance into accredited graduate programs in speech-language pathology and audiology, but also provides a strong academic foundation for students with other professional goals.

The undergraduate degree in speech, language, and hearing sciences emphasizes knowledge and awareness of:

- the anatomy of the speech and hearing mechanisms, as well as the processes of speech production, transmission, and reception;
- the development of language;
- scientific methods used in investigating speech/language/learning and hearing processes;
- the etiologies, manifestations, and treatments of speech/language/learning and hearing disorders; and
- the role of the professional speech-language pathologist and audiologist, including the history and development of the profession, the scientific traditions of the discipline, and the ethical issues in providing service to individuals with communication disorders.

In addition, students completing the degree in speech, language, and hearing sciences are expected to acquire the ability and skills to:

- express themselves effectively both orally and in written scientific and clinical discipline-specific reports;
- critically evaluate literature in the discipline; and
- analyze the acoustic output of the speech production process auditorily and/or instrumentally.

Course code for this program is SLHS.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Theatre and Dance

The Department of Theatre and Dance offers undergraduate and graduate degrees in both theatre and dance. These programs combine traditional studies with practical training. Ambitious seasons of theatre productions and dance concerts feature student performers and student designers, directors, and choreographers. Guest artists of national and international fame often participate in curricular and extracurricular activities. Recent guests have included Chris Aiken and Angie Hauser, Art Bridgman/Myrna Packer, Rennie Harris, Heidi Henderson, Kathleen Hermesdorf, Deborah Jowitz, Darrell Jones, Susan Marshall & Co., Bebe Miller, David Dorfman, Joe Goode, Kevin Wynn, and Shelley Senter in dance; Ami Dayan, Terry Berliner, Lee Blessing, Jim Moody, Tim Miller, Holly Hughes, Jane Page, Joan Schirle, Karen Finley, and Mark Medoff in theatre.

Students interested in theatre and dance are urged to consult with an advisor in the appropriate field to obtain both advice and the most current information concerning program opportunities and expectations.

Course codes for this department are THTR and DNCE.

Theatre

The undergraduate degrees in theatre emphasize knowledge and awareness of:

- the major works of dramatic literature that are representative of the most important eras in the development of theatre and drama;
- the history of theatrical production—its styles, conventions, and socially related mores—from ancient civilizations to the present time;
- the various means through which a theatrical concept is realized; and
- the aesthetic and intellectual relationship between theatre in its various 21st century modes and contemporary society.

In addition, students completing a degree in theatre are expected to acquire the ability and skills to:

- analyze and interpret plays and performances with particular attention to acting and performance of literature, designing, directing, and/or playwriting and criticism;
- use, with safety and efficiency, the tools and equipment basic to theatre production technology;
- communicate to an audience through at least one of the components of theatrical art—acting, directing, designing, playwriting, or criticism; and
- function effectively as a collaborative member of a production team in the preparation of regularly scheduled public productions.

Dance

The University of Colorado Boulder has an exciting and diversified dance program which offers BA, BFA, and MFA degrees. We are a contemporary dance program—one that values and provides study in a range of styles that influence the multifaceted nature of concert dance today. Our training reflects the influences of both West African traditional dance and Western European (ballet) folk dance traditions. Our curriculum is designed to develop concrete skills in performance and choreography and to instill an appreciation of the role that dance plays in human culture around the world. The following areas of knowledge and experience are central to all undergraduate degrees in dance:

- physical investigation of a myriad of styles including: contemporary, hip-hop, ballet, jazz, African and fusion forms, to deepen the somatic awareness and technical refinement of today's contemporary dancer;
- experience with the process and underlying aesthetics of dance creation and composition;
- basic familiarity with cultural, sociological, and aesthetic issues important to the contemporary realities of the field of dance, including a working knowledge of major world dance styles, works of dance literature, and the history of dance;
- knowledge of the various means, such as stagecraft, costuming, makeup, and promotion, through which a public presentation of dance is realized;

study and practical experience with the act of teaching dance, including issues of creativity, style, and pedagogical appropriateness;

- basic knowledge of tactics for prevention of injury to the dancer's body, first aid and approaches to rehabilitation from injury, and of various somatic approaches to dance training; and
- experiential study of the relationship between dance and music, including concrete practice of skills in playing and hearing music.

In addition, students completing a degree in dance are expected to acquire the ability and skills to:

- actively participate in dance as an art form with particular attention to at least one of the following areas of dance: performance, choreography, dance production, scholarship, pedagogy, or criticism;
- understand and mobilize knowledge of appropriate use of the anatomy and physiology of the body in performance and teaching;
- communicate effectively to an audience through at least one of the components of dance—performance, choreography, teaching, or scholarship;
- function constructively as a member of a dance community in the preparation of regularly scheduled public productions; and
- connect and collaborate with communities outside the department through dance outreach.

BA and BFA students are expected to take at least one course each in contemporary, ballet, jazz, and African dance technique before the end of their sophomore year. Dance majors must earn a C- or better in all required courses. Students who have not placed in the major technique class (DNCE 2021, 3041, or 4061) by their second semester in dance program are strongly advised not to continue in the major program in dance. Placement into and successful completion of major technique is a prerequisite for enrollment in other required dance courses.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

[+ Dual Degree Programs](#)

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Western American Studies

The Center of the American West offers an undergraduate certificate program in Western American Studies for students who have an intellectual commitment to any of a broad range of issues and aspects of the American West, including history and literature, culture and society, and economic and environmental challenges facing western communities. Courses involve students in an exploration of the past, an appreciation for traditional and contemporary stories and art in the region, and an understanding of western landscapes, ecosystems, and the factors that affect them.

Course code for this program is CAMW.

[+ Certificate Program](#)

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Western Civilization Studies

The Center for Western Civilization (CWC) offers an undergraduate certificate program, Foundations of Western Civilization, for students interested in a rigorous grounding in Western culture. The certificate promotes critical reflection and academic research on the traditions and issues that characterize Western civilization through the study of Western culture, science, and government in their ancient, medieval, and modern forms. It helps students understand their role as citizens in a nation founded on the ancient ideals of consensual rule and republican government.

Course code for this program is CWCV.

[+ Certificate Program](#)

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Women and Gender Studies

The interdisciplinary women and gender studies undergraduate major and minor offer students a rigorous but flexible program of study that examines women, gender, and sexuality in relation to race, class, national identity, and ability. Students explore the ways that gender and sexuality work in diverse communities and in different cultural and historical contexts. Areas of inquiry include but are not limited to: gender/sex systems across cultures and historical periods; gender, sexuality, and culture; legal and public policy issues around gender and sexuality; women's participation in social and cultural production; transnational feminisms; feminist theory and its relation to different philosophical and epistemological traditions; sexual identity politics and histories; and queer theory. Drawing from approximately 50 courses, many cross-listed with other academic units, students fulfill the requirements of the major or minor and can design an emphasis relevant to their special interests by focusing on one of three cognate areas: gender/sexuality, race/ethnicity, or global/transnational. The program houses a reading library and organizes colloquia, workshops, and other cultural and educational events.

Students have gone on to careers in fields such as law, medicine, government, public health, public policy, social work, teaching, counseling, advocacy, media, public relations, education, politics, fundraising, small business development, librarianship, and arts administration.

The undergraduate degree and the minor in women and gender studies will provide students with an in-depth understanding of:

- the historical and cross-cultural variability of social norms of masculinity and femininity
- the ways in which gender/sex systems intersect with other axes of domination, such as class, race, ethnicity, ability, and national identity
- the centrality of gender and sexuality to politics, economics, social relations, and culture at the local, national, and international level
- the diversity of global feminism
- how gender roles and expectations play out in the global economy
- how power and privilege function at the intersection of gender, sexuality, race, class, ability, and national identity
- how women participate in, contribute to, and transform areas of social life including politics, economics, social relations, culture, and religion
- institutionalized discrimination and violence against women, girls, and LGBTQ individuals
- women's activism and resistance to oppression
- the varied research methods and theoretical perspectives used in women, gender, and sexuality studies, including the relationship between theory and practice
- the history of women, gender, and sexuality studies as an academic discipline and the main themes that have characterized its emergence

In addition, students with degrees in women and gender studies will be able to:

- communicate complex ideas related to women and gender studies to academic and general audiences
- employ creative problem solving techniques, especially with regard to research and analysis of the issues noted in the previous section
- organize and synthesize material in new ways, especially with regard to research and analysis of the issues noted in the previous section
- read, critically evaluate, and synthesize women and gender studies scholarship
- work collaboratively with colleagues and the general public, especially with regard to the issues noted in the previous section

For more information, visit wgst.colorado.edu.

Course code for this program is WMST.

+ Bachelor's Degree Program(s)

+ Certificate Program

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Writing and Rhetoric, Program for

The Program for Writing and Rhetoric (PWR) is a free-standing unit in the College of Arts and Sciences responsible for campus-wide instruction in expository writing. The program coordinates and oversees all writing curricula and instruction intended to meet college and campus requirements, including efforts in specific disciplines and targeted campus programs.

The program is committed to training students to think critically about the texts they read and the writing they produce, and to enable them to shape and express ideas with clarity and grace in any context: academic, professional, or civic. Classes are generally conducted as intensive writing workshops, placing a premium on thoughtful, substantive revision.

The program offers both lower-division and upper-division courses, as well as some graduate seminars. Certain undergraduate courses fulfill the College of Arts and Sciences written communication requirement, and some also fulfill graduation requirements in other colleges. Students should check with their advisors to be sure that they are taking the right course to fulfill their requirement.

For information about specific classes and their instructors, students should visit www.colorado.edu/pwr.

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Programs of Study

Business Administration

The Leeds School of Business holds accreditation by the Association to Advance Collegiate Schools of Business (AACSB-International). Leeds awards four types of degrees:

- bachelor of science (BS)
- master of science (MS)
- master of business administration (MBA)
- doctor of philosophy (PhD)

Knowledge and Abilities of Business Students

The following areas of knowledge are central to the undergraduate degree in business administration:

- knowledge of core business concepts that provides students with a comprehensive understanding of the basic functional areas of the discipline;
- knowledge in one or more of the four areas of emphasis, in which students are exposed to in-depth study that provides them with the tools necessary to solve complex business problems;
- awareness of the interrelations between academic theory and practice in order for students to be fully equipped to make effective decisions;
- strong verbal and written communication skills, proficiency in business computer applications, and knowledge of international business environments;
- knowledge of mathematics sufficient to facilitate the application of quantitative principles; and
- awareness of the importance of academic fields in the area of arts and sciences, with special emphasis placed on the study of economics, political science, and other related fields.

In addition, students completing a degree in business administration are expected to acquire:

- the ability to apply basic business principles to solve problems in new and recurring situations;
- the ability to conceptualize and analyze decision-making situations to facilitate solutions in an effective and timely manner; and
- the ability to effectively communicate the results of problem-solving situations, both verbally and in writing.

Having acquired these skills and knowledge, students are able to conceptualize and analyze the concept of business and problem solving as a system. They have the ability to present solutions to business problems in an understandable and useful form. Their education provides them with excellent working knowledge, not only in the field of business, but also in related academic disciplines.

Advising and Records

Undergraduate business students receive academic counseling from a staff of professional advisors in the Office of Undergraduate Student Services. During the semester, advisors are available Monday through Friday from 8:00 a.m. to 5:00 p.m., and by appointment.

Faculty advisors are available to discuss the various areas of emphasis as well as career opportunities. Faculty advising hours will vary each semester.

Students are expected to assume responsibility for planning their program in accordance with college rules and policies.

Students are encouraged to discuss the various emphases available as well as career opportunities with the faculty of the college.

Course codes for these programs are ACCT, BADM, BCOR, BPOL, BSLW, CESR, ESBM, FNCE, INBU, MGMT, MKTG, MBAC, MBAX, OPMG, ORMG, and REAL.

⊕ Bachelor's Degree Program(s)

⊕ Areas of Emphasis

⊕ Areas of Application

⊕ Concurrent Bachelor's/Master's Program

⊕ Graduate Degree Program(s)

⊕ Dual Degree Programs

⊕ Certificate Program

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Teacher Licensure Program

On This Page:

- [Program Goals](#)
- [Arts and Sciences Core Requirements for Teacher Candidates](#)
- [Performance-Based Standards for Colorado Teachers](#)
- [Admission](#)
- [Advising](#)
- [Academic Majors](#)
- [Application Requirements](#)

The School of Education offers course work leading to initial Colorado licensure to undergraduate, postbaccalaureate, and master's degree students. Colorado requires public school teachers to be licensed by its state department of education. Students who successfully complete all School of Education requirements will be recommended for a Colorado provisional (initial) teaching license, the license issued to all new teachers in Colorado. Licensure requirements vary from state to state and from teaching area to area. Students who are interested in teaching in other states should familiarize themselves with the requirements of those states so they may plan an appropriate degree program.

Undergraduate and Postbaccalaureate (Nonmaster's Degree) Licensure Programs

- Elementary (grades K–6) education
- Secondary education (grades 7–12) fields:
 - English
 - World language (French, German, Japanese, Latin, Russian, or Spanish)
 - Mathematics
 - Science
 - Social studies
- Music (grades K–12)

Secondary Master's Degree Plus Licensure Program (see Graduate Study section for additional program information)

- Secondary education (grades 7–12) fields:
 - English
 - Mathematics
 - Science
 - Social studies

Program Goals

Teacher education programs focus on the preparation of novice teachers in three interdependent areas:

- knowledge of subject matter and pedagogy,
- education of students in a diverse society, and
- professional obligations and dispositions of teachers in a democracy.

To meet these goals teacher education students engage in a planned sequence of courses and accompanying field experiences in community and school sites.

Performance-Based Standards for Colorado Teachers

In addition to program goals, the teacher education programs address eight performance-based standards for Colorado teachers, as adopted by the Colorado Department of Education in January 2000.

1. **Knowledge of Literacy.** The teacher shall be knowledgeable about student literacy development in reading, writing, speaking, viewing, and listening.
2. **Knowledge of Mathematics.** The teacher shall be knowledgeable about mathematics and mathematics instruction.
3. **Knowledge of Standards and Assessment.** The teacher shall be knowledgeable about strategies, planning practices, assessment techniques, and appropriate accommodations to ensure student learning in a standards-based curriculum.
4. **Knowledge of Content.** The elementary teacher is knowledgeable, in addition to literacy and mathematics, in the following content areas: civics, economics, foreign language, geography, history, science, music, visual arts, and physical education. Middle school and secondary content teachers shall be knowledgeable in literacy and mathematics and expert in their content endorsement area(s).
5. **Knowledge of Classroom and Instruction Management.** The teacher is knowledgeable about classroom practice in order to successfully manage time, communications, and record keeping procedures that will support and enhance student learning.
6. **Knowledge of Individualization of Instruction.** The teacher is responsive to the needs and experiences children bring to the classroom, including those based on culture, community, ethnicity, economics, linguistics, and innate learning abilities. The teacher is knowledgeable about learning exceptionalities and conditions that affect the rate and extent of student learning, and is able to adapt instruction for all learners.
7. **Knowledge of Technology.** The teacher is skilled in technology and is knowledgeable about using technology to support instruction and enhance student learning.
8. **Democracy, Educational Governance, and Careers in Teaching.** The teacher recognizes the school's role in teaching and perpetuating our democratic system. The teacher knows the relationships among the various governmental entities that create laws, rules, regulations, and policies that determine educational practices.

The objectives of the university relative to teacher education are the following:

1. Provide programs of undergraduate and graduate studies designed to develop outstanding teachers, supervisors, college teachers, administrators, and researchers.
2. Conduct and direct educational research and to engage in writing and related creative endeavors.
3. Identify and attract future outstanding teachers into the teacher education program.
4. Cooperate with other state, regional, and federal agencies to improve educational programs.

Teacher education at the University of Colorado, while administered by the School of Education, is a university-wide function. Many academic departments provide course work that supports the teacher in training. Undergraduate students follow a prescribed set of arts and sciences core courses that meet state content preparation standards, complete a major, and satisfy professional education requirements concurrently. The program involves a combination of courses at the university and K–12 school placements.

Academic Majors

Undergraduate Students. Undergraduate students enrolled at the University of Colorado Boulder seeking both a bachelor's degree and teacher licensure must complete a major approved for prospective teachers by the Colorado Department of Higher Education. With careful planning beginning freshman year, these programs may be completed in four years. A list of these approved majors is available on the School of Education website, www.colorado.edu/education. No professional education course work taken before the implementation of the Colorado Model Content Standards and Performance-Based Standards for Colorado Teachers may count for teacher education requirements.

The major selected is determined by the student's interest in teaching a certain subject or instructional level. Before selecting a particular major, students may see the School of Education advisor.

Students interested in teaching at the secondary level should be aware that in many subject areas the teaching program requires additional courses or more hours than the academic major. Course requirements for all programs are explained in the program checklists available in Education 151.

Arts and Sciences Core Requirements for Teacher Candidates

Arts and sciences students must complete college core curriculum requirements (see College of Arts and Sciences Undergraduate Degree Requirements section). Teacher licensure students must take specified courses within some categories of this core curriculum.

The arts and sciences core is listed below; courses specified in each area for students seeking teaching licensure are in **bold italic** type.

Elementary Licensure

- Foreign Language: Third semester proficiency in a single modern or classical foreign language.
- Quantitative Reasoning and Mathematical Skills: 3–6 semester hours. **MATH 1110 and 1120 Spirit and Uses of Mathematics 1 and 2** or **MATH 1300 Calculus 1**
- Written Communication: 3 lower-division and 3 upper-division semester hours.
- Historical Context: 3 semester hours. Choose from: ARAB 3230, ASIA 1000, CLAS/HIST 1051, CLAS/HIST 1061, CLAS 1140, ECON 4514, HIST 1010, HIST 1020, HIST 1038, HIST 1108, HIST 1113, HIST 1123, HIST 1208, HIST 1308, HIST 1408, HIST 1608, HIST 1708, HIST 2220, HIST 2629, RUSS 2211, RUSS 2221, RUSS 2471, RUSS 3601, RUSS 4301, or SCAN 2202.
- Human Diversity: 3 semester hours. **EDUC 3013 School and Society**
- United States Context: 3 semester hours. Choose from: CAMW 2001, ECON 4524, ETHN 2004, ETHN 2013, ETHN 2014, ETHN 2432/HIST 2437, ETHN 2536, ETHN 3015, ETHN 3905/MMST 3900, HIST 1015, HIST 1025, HIST 2015, HIST 2126, HIST 2166, HIST 2316, HIST 2326, HIST 2516, or HIST 2636/MMST 2400.
- Literature and the Arts: 6 semester hours, 3 upper-division semester hours.
- Natural Science: 13 semester hours, including a 2-course sequence and a laboratory or field experience.
- Physical science required (ASTR, ATOC, CHEM, GEOG, GEOL, PHYS)
- Biological science required (EBIO, MCDB, or IPHY)
- Contemporary Societies: 3 semester hours. **PSCI 1101 American Political Systems**
- Ideals and Values: 3 semester hours.
- Additional liberal arts requirement: 3 semester hours. **Human/Cultural Geography**

Secondary Licensure

- Foreign Language: Third semester proficiency in a single modern or classical foreign language.
- Quantitative Reasoning and Mathematical Skills: 3–6 semester hours.
MATH 1410 Mathematics for Secondary Teachers or **MATH 1300 Calculus 1**
- Written Communication: 3 lower-division and 3 upper-division semester hours.
- Historical Context: 3 semester hours.
- Human Diversity: 3 semester hours.
Course from major or **EDUC 3013 School and Society**
- United States Context: 3 semester hours.
- Literature and the Arts: 6 semester hours, 3 upper-division semester hours.
- Natural Science: 13 semester hours, including a 2-course sequence and a laboratory or field experience.
- Contemporary Societies: 3 semester hours.
Course from major or **EDUC 3013 School and Society**
- Ideals and Values: 3 semester hours.

Postbaccalaureate Students. Postbaccalaureate students are not required to have a degree in one of the majors approved by the Colorado Department of Higher Education. *However, students who have graduated with a nonapproved major often must take additional arts and sciences and major course work to fulfill state teacher licensure requirements.*

Admission

Admission to all School of Education programs is selective. Satisfying minimal admission criteria does not guarantee admission.

Students Entering or Currently Enrolled at the University of Colorado

Undergraduate students seeking to complete the School of Education teacher education program must be enrolled in an approved degree program in one of the colleges or schools of the university. All undergraduates interested in teaching may seek teacher education advising at the time they enter the university. Freshman and sophomore students are encouraged to satisfy as

many of the arts and sciences core requirements, liberal arts requirements for the appropriate licensure program, and major field requirements as possible before applying for admission to the teacher education program. Some education courses may be taken prior to admission to the teacher education program. Students should pick up advising materials in Education 151 and attend all education information sessions, including freshman orientation.

Transfer Students

Undergraduate students who seek to transfer to the University of Colorado from another accredited institution must apply for admission through the Office of Admissions. They must enroll in a degree program in one of the undergraduate degree-granting colleges or schools of the university and also apply for admission to the teacher education program in the School of Education. At least 30 hours of course work for licensure must be taken while the student is officially enrolled as a student in the university. Credit in student teaching will not transfer to the University of Colorado Boulder. Please see Undergraduate Admission in the General Information section for specific requirements.

Former Students

Former students who have not completed an undergraduate degree may reenter the university according to general university policies; however, subsequent to that readmission, they must apply separately for entry into the teacher education program. Undergraduate students who anticipate that they will graduate prior to completing the teacher education program must see the School of Education advisor. All admitted students who remain continuously enrolled will be expected to complete the program in effect at the time of their admission to the program unless state accrediting changes dictate otherwise.

Postbaccalaureate and Master's Degree Students Seeking Teacher Training

Students who already hold a bachelor's degree and wish to pursue licensure should apply directly to the School of Education. Students desiring institutional recommendation for licensure must complete at least 30 semester hours of work at the University of Colorado and also must fulfill the same academic area requirements as undergraduate students. The actual number of required hours will depend on courses already completed.

Application Requirements

Students may apply to one of the teacher education programs if the following requirements have been fulfilled:

1. **GPA.** Elementary and secondary students must have and maintain a 2.75 (on a 4.00 scale) cumulative GPA, 2.75 at CU-Boulder, 2.75 in their subject area (secondary teacher fields), and 2.75 in education. Music students must have and maintain a 3.00 overall and in their subject area. Students applying to Master's Plus (MA+) programs must have and maintain a 3.00 cumulative GPA.
2. **Prior Degrees.** Students applying to Postbaccalaureate and Master's Plus (MA+) programs must have a bachelor's degree from an accredited institution.
3. **Youth Experience.** Students must provide written verification of 25 clock hours of satisfactory experiences with elementary, middle/junior high, or senior high school-aged youth (appropriate to the desired program) in the past five years. Forms for this purpose are available in the Office of Student Services, Education 151, or online at www.colorado.edu/education/prospective/teachereducation.html. Students in the CU Teach program meet this requirement through school experiences in Step 1 and 2 courses.
4. **Basic Skills.** All teacher education students must demonstrate basic skills competence in mathematics and literacy. This may be done through acceptable grades in appropriate college course work, or by acceptable standardized test scores. Contact the Office of Student Services in Education 151 for more information.
5. **Letters of Recommendation.**
6. **Personal Statement.**
7. **Fee.** The appropriate application fee should be submitted with application materials. Fees vary by program.
8. **Deadlines.** Deadlines for undergraduate and postbaccalaureate admission are February 1 for fall and September 15 for spring. The deadline for MA+ is January 1.

Application Materials

Individuals interested in completing the teacher education program at the University of Colorado Boulder should request application materials from the Office of Student Services, Education 151 or online at www.colorado.edu/education/prospective. Students currently enrolled in a degree program at Boulder will need to complete an application.

Individuals who have completed a baccalaureate degree at an accredited institution and are not currently enrolled at the university must complete a program application, a university application and submit official transcripts from all previous colleges directly to the Office of Admissions.

Advising

Students are responsible for obtaining a student handbook and program checklist in Education 151, available online at www.colorado.edu/education/students/teachereducation.html. These materials include specific information for all teaching fields and information on how to seek advising.

Off-campus students may obtain advising materials online at www.colorado.edu/education/students/teachereducation.html or by calling **303-492-6555**.

At CU-Boulder, degree requirements vary among the schools and colleges. Students seeking a degree at the University of Colorado should consult, as soon as possible, with an advisor in the college or school from which they expect to graduate and with the School of Education advisor.

Students are encouraged to become familiar with the teacher education requirements by comparing their own transcripts to the published advising materials. Students can then talk with an advisor before applying to the program or they may wait until after their applications are processed. Students seeking teacher training in French, German, Japanese, Latin, Russian, Spanish, or music should see the designated advisor for that teaching field in addition to the School of Education advisor.

Advising also may be obtained by e-mail through EdAdvise@colorado.edu. When requesting e-mail advising, students should make questions as specific as possible.

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Graduate Degrees in Education

On This Page:

- [Graduate Study](#)
- [Teaching Endorsements at the Graduate Level](#)
- [Admission](#)
- [Advising](#)
- [General Information](#)

Graduate Study

Graduate study in education at the University of Colorado is administered through the Office of Student Services, School of Education, and all inquiries regarding programs should be directed to the following address: **Office of Student Services**, School of Education, University of Colorado Boulder, 249 UCB, Boulder, CO 80309-0249.

Detailed program materials and *The School of Education Graduate Student Handbook* are available on the School of Education Student Services website at www.colorado.edu/education/prospective/gradprograms.html. The degrees available in the various areas of graduate study are listed below:

1. Curriculum and Instruction (K–12 humanities education; K–12 mathematics and science education; K–12 literacy education; research on teaching and teacher education)

- Master of arts
- Doctor of philosophy
- Secondary Master's Plus (MA+) Licensure Programs

CU-Boulder offers special programs for prospective secondary teachers that combine a master of arts degree in curriculum and instruction in a content area and teacher licensure to qualified students already holding bachelor's degrees. Admission is highly competitive, and program completion requires a two-year commitment of course work and school placements. Students in the MA+ programs become eligible for a Colorado teaching license after three semesters; they complete remaining course work for the master's degree in the fourth semester. Applicants must meet all graduate requirements listed below and undergo an extensive screening process. This program admits students for fall semester only. Complete program information is available in the Office of Student Services, Education 151 or by calling **303-492-6555**.

2. Educational-Psychological Studies (educational psychology and learning sciences)

- Master of arts
- Doctor of philosophy

3. Research and Evaluation Methodology (methods of educational research and evaluation, including statistics, measurement, and qualitative methods)

- Doctor of philosophy

4. Multicultural, Social, and Bilingual Foundations (bilingual and multicultural education; bilingual/special education; education and cultural diversity; English as a second language; cultural, historical, social, and philosophical foundations; education policy)

- Master of arts
- Doctor of philosophy

CU-Boulder does not offer programs in early childhood education, physical education, art education, counseling, school administration, higher education, school psychology, or educational technology.

Teaching Endorsements at the Graduate Level

Through the School of Education (and in conjunction with other departments), the University of Colorado Boulder offers advanced course work leading to graduate level teaching and special services training in the following areas:

- Culturally and linguistically diverse education (grades K–12)
- Culturally and linguistically diverse education specialist: bilingual education (grades K–12)
- Reading teacher (grades K–12)
- Special education generalist (grades K–12)
- Special education specialist (grades K–12)
- Special services (offered through SLHS): Audiologist (ages 0–21); Speech/language pathologist (ages 0–21)

All of the above programs have degree, licensure, or experience requirements that must be fulfilled before admission. Please check with the department before applying.

Admission

Prospective students seeking admission to a graduate degree program should view electronic application materials at www.colorado.edu/education/prospective/gradprograms.html. Prospective graduate students should also read the Graduate School section for additional admission information. If test scores are required for admission to the desired program, applicants should request that the Educational Testing Service send their scores on the verbal reasoning, quantitative reasoning, and analytical writing sections of the Graduate Record Examination (GRE) to the Office of Student Services. A doctoral applicant who has not taken the GRE should arrange to do so.

Admission to all programs and degrees in the School of Education is selective. Meeting minimal admission requirements does not guarantee admission.

Application papers and all supporting documents, including GRE or Miller's Analogy Test (MAT) scores, if these scores are required for admission to the desired program, must be submitted electronically by the admission deadline. Master's deadlines are September 1 for spring semester and February 1 for summer session and fall semester. The PhD deadline is January 1. The PhD program only has one admission cycle each year. The international student deadline for PhD students is December 1. Students should visit the International Student Admission website for additional forms and information, www.colorado.edu/prospective/international. The Secondary Master's Plus (MA+) deadline is January 1.

Advising

Graduate students are assigned an individual faculty advisor after admission and are required to submit a formal plan of study, approved by their advisor, before the end of the first full year of study. Graduate students may obtain program information from the School of Education, Office of Student Services, Education 151, or from their faculty advisors.

General Information

Maximum Load and Part-Time Study

A maximum of 15 semester hours in any one semester may be applied toward degree requirements. During the summer, 9 semester hours is the maximum that will be counted toward education graduate degrees. Within this limit, students may take up to 6 semester hours in a five-week summer term, and/or 3 semester hours in a three-week term. During the academic year for financial aid purposes, students will be regarded as having a full load if they are registered for 5 or more semester hours in courses numbered 5000 or above, or are registered in a minimum of 5 dissertation or 1 MA thesis hour. At least four semesters of residence credit, two of which must be consecutive in one academic year, must be earned for work taken at CU-Boulder. See the Graduate School section for clarification.

Quality of Work

A grade average of *B* (3.00) or better is required for all work taken for any graduate degree. Transferred credits are not included when calculating grade averages.

A mark below *B-* will not be credited toward the PhD program; a mark below *C* is not acceptable for MA students. Any graduate course in which a mark of *D* or *F* is reported as failed and must be repeated and passed if it is required in a student's degree program. Students who do not maintain at least a *B* (3.00) average or better may be suspended by the dean of the Graduate School upon the recommendation of the associate dean of graduate studies in the School of Education. Students may also be suspended from the Graduate School for continued failure to maintain satisfactory progress toward the degree sought.

Opportunities for Assistantships

The School of Education has a limited number of assistantships administered by the dean on the recommendations of faculty and the associate dean for teacher education or associate dean for graduate studies. Some assistantships involve the supervision of student teachers; others involve helping professors in their teaching or research. Taxable stipends in amounts set by the university are paid for all assistantships. Appointments are usually made in terms of one-fourth time (10 hours a week) or one-half time (20 hours a week). Inquiries should be directed to the associate dean for graduate studies.

➤ Graduate Degree Program(s)

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Aerospace Engineering Sciences

The mission of the Department of Aerospace Engineering Sciences is to provide quality education, including hands-on learning, and to conduct foremost research in aerospace engineering sciences. These goals are accomplished through fundamental and multidisciplinary research and by preparing aerospace engineering students to meet the needs of 21st-century society through the conception, design, and application of aerial and spacecraft systems.

The department is uniquely characterized by:

- blending aeronautics, astronautics, and science applications;
- providing an undergraduate experience characterized by rigorous preparation in mathematics and engineering sciences, a hands-on experiential approach to learning, and an extensive emphasis on design in a systems context;
- emphasizing in our graduate education and research programs forefront aerospace technology development and the integration of engineering and science activities to solve critical problems in the Earth and space sciences; and
- creating graduates who are broadly educated, interdisciplinary, agile, team-oriented engineers and scientists, with end-to-end mission and systems perspectives.

Educational Objectives

During their first three to five years after graduation, Aerospace Engineering Sciences graduates will have:

- established themselves in professional careers or received a graduate degree;
- demonstrated ethical leadership, project management, and/or innovation; and
- played significant roles in the research and development of engineering systems and products.

Desired Outcomes

Students completing the undergraduate degree in aerospace engineering will be knowledgeable in the following areas:

- the professional context of the practice of aerospace engineering and expectations of new graduates in aerospace engineering organizations, including an awareness of ethics issues, economics, and the business environment;
- the history of aerospace engineering, providing a perspective on current events;
- aerospace engineering as a highly multidisciplinary endeavor, requiring a systems perspective to integrate technologies and manage complexity; and
- major principles and scientific methods underlying the technologies comprising aerospace vehicles and systems.

Upon graduation, students will have developed the following general skills and abilities:

- strong written, oral, and graphical communication skills;
- an ability to quantitatively estimate, model, analyze, and compute;
- an ability to define and conduct experiments using modern laboratory instruments, and to interpret experimental results;
- an ability to seek out and gather information, enabling independent and lifelong learning;
- interpersonal and organizational skills that enable individuals to work effectively in teams and assume leadership positions;
- an ability to identify needs, requirements, and constraints, and to design appropriate reliable engineering solutions;
- an ability to formulate technical problems clearly, and to correctly apply appropriate methods and procedures for their solution;
- an ability to program computers, and skills in the use of modern engineering analysis, simulation software, and operating systems; and

an ability to understand societal needs, business issues, and the ethical concerns and responsibility of the industry.

Course code for this program is ASEN.

- Bachelor's Degree Program(s)
- Concurrent Bachelor's/Master's Program
- Graduate Degree Program(s)

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Applied Mathematics

The Department of Applied Mathematics in the College of Arts and Sciences offers a BS degree in applied mathematics through the College of Engineering and Applied Science. The BS degree is designed to prepare graduates for exciting and diverse professional careers, and for graduate study in a wide variety of disciplines. The department also offers a 5-year BS/MS, as well as an MS degree and a PhD degree through the Graduate School.

The objectives of the Department of Applied Mathematics at CU-Boulder are summarized below:

- provide undergraduate and graduate students with high-quality education and training in applied mathematics, and prepare them for careers in industry, laboratories, and the academic professions;
- offer and monitor degree programs leading to BS, MS, and PhD degrees in applied mathematics;
- nourish and maintain a professional environment in which excellence in teaching, learning, scholarship, and creativity are of central importance;
- assure teaching and research expertise in a number of key areas of applied mathematics including the methodology of applied mathematics, computational mathematics and algorithms, industrial applications, mathematical biology, applied probability, and statistics.

Courses at the undergraduate level provide training in a broad range of mathematical techniques and problem-solving strategies. These courses teach the concepts and methods central to applications of linear algebra, ordinary and partial differential equations, numerical analysis, probability and statistics, complex variables, and nonlinear dynamics. Since applied mathematicians often are involved in interdisciplinary work, the BS degree requires an in-depth knowledge of some area of science or engineering where mathematics is used. This knowledge prepares graduates to successfully communicate and cooperate with engineers and scientists. The BS degree also requires knowledge of a programming language and skill in using the computer.

Desired Outcomes

The undergraduate degree in applied mathematics emphasizes knowledge and awareness of:

- differential and integral calculus in one and several variables;
- vector spaces and matrix algebra;
- ordinary and partial differential equations;
- at least one programming language;
- at least one application software package in either mathematics or statistics;
- methods of complex variables as used in applications; and
- numerical solutions of linear and nonlinear problems.

In addition, students completing a degree in applied mathematics acquire:

- an in-depth knowledge of an area of application (an engineering discipline or a natural science field or one of the quantitative areas of business and economics);
- knowledge of problem-formulation, problem-solving, and modeling techniques and strategies central to applications; and
- the ability to communicate analytic arguments clearly and concisely in oral and written forms.

Course code for this program is APPM.

Minor Program

The department also offers a minor in applied mathematics that is available to all undergraduate students. A minor in applied mathematics indicates that a student has received in-depth training in

mathematical techniques and computational methods well beyond the training usually received by science and engineering majors.

[+ Bachelor's Degree Program\(s\)](#)

[+ Concurrent Bachelor's/Master's Program](#)

[+ Graduate Degree Program\(s\)](#)

[+ Dual Degree Programs](#)

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Architectural Engineering

Architectural engineering has many elements in common with civil, mechanical, and electrical engineering, but is specifically directed toward the building industry. It focuses on building systems, which include design of systems such as heating, ventilating, and air conditioning (HVAC) systems; illumination and electrical systems; structural building systems; and construction methods applied to buildings. The program is administered by the Department of Civil, Environmental, and Architectural Engineering. Students also take courses in architectural history and architectural design from the College of Architecture and Planning.

Program Educational Objectives

The educational objective of the architectural engineering program is to develop graduates who acquire the broad knowledge and skills necessary to successfully begin and sustain a career, and to become leaders who advance the state-of-the art, in one of four core disciplines of the building industry:

- electrical and lighting systems
- heating, ventilating, and air conditioning (HVAC) systems
- structural systems
- construction engineering and management

Educational Outcomes

The outcomes that students are expected to have attained upon graduation with the bachelor of science degree in architectural engineering are:

- the ability to apply knowledge of mathematics, science, and engineering
- the ability to design and conduct experiments
- the ability to analyze and interpret data
- the ability to design a system or component to meet desired needs
- the ability to function on multidisciplinary teams
- the ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibilities
- the ability to communicate effectively through writing and/or drawing
- the ability to communicate effectively through oral presentations
- an understanding of the impact of engineering on society
- an understanding of the necessity to engage in life-long learning
- a knowledge of contemporary issues in civil, environmental, and architectural engineering
- the ability to use modern engineering techniques, skills, and tools

Areas of Knowledge

The areas of knowledge that define these objectives include both technical and non-technical areas.

Technical areas are:

- **elementary**—the fundamentals for architectural engineering, including basic science and mathematics, building design and construction processes; overview of building systems; elementary principles and processes of architecture; and laboratory measurement and data analysis;
- **intermediate**—introduction to building systems and their components, with corresponding analysis of electrical, HVAC, and lighting systems as well as structural elements and

components;

- **proficiency**—design, integration, and advanced analysis of electrical, HVAC, lighting, and structural systems; as well as the codes and recommended practices that govern these building systems; and
- **specialization**—advanced design, coupled with industry experience via internships, for building lighting and electrical system design, building HVAC systems design, building structural system design, and construction engineering and management.

Non-technical areas include:

- professional life, including methods of time and resource management, and professional ethics;
- processes and requirements of written and oral communication; and
- broad areas in the humanities and social sciences, including architectural history and language.

Course code for this program is AREN.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

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Chemical and Biological Engineering

The Department of Chemical and Biological Engineering offers degrees at the bachelor's, master's, and doctoral levels. The department offers two distinct BS degree programs, one in **chemical engineering** and one in **chemical and biological engineering**. The Regents of the University of Colorado and the Colorado Commission on Higher Education approved the new BS program in the combined fields of chemical and biological engineering during the summer of 2006. The first graduates of the new program graduated in the spring of 2009 and the program is accredited by the Engineering Accreditation Commission of ABET (www.abet.org).

Other Opportunities in the Department of Chemical and Biological Engineering

At the BS, MS, and PhD levels, there are opportunities to specialize via electives, independent study, and research. The BS in chemical engineering also offers optional variations to the core curriculum that allow students to specialize in environmental, computer, microelectronic, and materials aspects of chemical engineering. If a student has an interest that is not included in the following information, special arrangements can usually be made.

Students may carry out part of their studies in another country (see the Office of International Education section), and are encouraged to consider this opportunity, given the international nature of most large chemical and engineering corporations and international cooperation in scientific and engineering research. Many faculty members have significant international experience.

Cooperative Education and Internships. The Department of Chemical and Biological Engineering offers a formal Co-Op Program, where students obtain a BS in chemical engineering or chemical and biological engineering and significant industrial experience in five years. A Biotechnology Internships program is also offered for summer internships with local companies.

Senior Thesis. The department offers this program for undergraduates with a strong interest in research. The student carries out a year-long project under the direction of a faculty member in lieu of taking CHEN 4130 Chemical Engineering Laboratory 2 (for ChE students) or CHEN 4810 Biological Engineering Lab (for ChBE students). Students must apply at the end of their junior year.

Research Facilities

Chemical and biological engineering research facilities are extensive and modern. Nearly all research equipment is interfaced to computers for automated data collection, monitoring, and control. A full description of chemical engineering research facilities can be found in the Graduate School section.

Course codes for this program are CHEM and CHEN.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)



Civil Engineering

The curricula in civil engineering within the Department of Civil, Environmental, and Architectural Engineering have been designed to qualify students for entry-level positions in professional practice in the areas of civil and environmental engineering. These broad area designations may be separated into the subdisciplines of:

- construction engineering and management;
- environmental engineering;
- geotechnical engineering and geomechanics;
- structural engineering and structural mechanics; and
- water resource engineering and management.

Through the regular curriculum, students will be ready to enter professional practice in the foregoing areas and be equipped to progress to higher levels in many directions. An Engineering Science track is also available for undergraduates who want additional preparation for graduate study and careers in research and development.

Program Educational Objectives

The overall objectives of the bachelor of science program in civil engineering are:

- Graduates will be successfully employed in engineering, science, or technology careers.
- Graduates will be assuming management or leadership roles.
- Graduates will engage in continual learning by pursuing advanced degrees or additional educational opportunities through course work, professional conferences and training, and/or participation in professional societies.
- Graduates will pursue professional registration or other appropriate certifications.
- Graduates will be active in civic engagement.

Educational Outcomes

The outcomes that students are expected to have attained upon graduation with a bachelor of science degree in civil engineering are:

- the ability to apply knowledge of mathematics, science, and engineering
- the ability to design and conduct experiments
- the ability to analyze and interpret data
- the ability to design a system or component to meet desired needs
- the ability to function on multidisciplinary teams
- the ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibilities
- the ability to communicate effectively through writing and/or drawing
- the ability to communicate effectively through oral presentations
- an understanding of the impact of engineering on society
- an understanding of the necessity to engage in lifelong learning
- a knowledge of contemporary issues in civil, environmental, and architectural engineering
- the ability to use modern engineering techniques, skills, and tools

the ability to explain basic concepts in management, business, public policy, and leadership

Before their graduation, students in civil and environmental engineering will take a capstone design course in addition to training in structural and foundation design, civil engineering systems, construction, engineering geology, engineering materials, geotechnical engineering, soil mechanics, water quality, environmental engineering, fluid mechanics, computer-aided and manual engineering drawing, mechanics and dynamics, computer modeling, professional practice and ethics seminars, structural analysis and design, surveying, and transportation systems via required and elective courses.

Research Interests and Facilities

The department has a wide variety of research facilities, including a 15g-ton centrifuge for geotechnical and structural model studies and a large 440g-ton geotechnical centrifuge for use in model testing. Also available is an instructional computing facility, the Bechtel Laboratory, and the M.Y. Leung Computational Laboratory for Soils and Structures, both equipped with Windows and Linux high-performance workstations. In addition, extensive structural engineering, engineering mechanics, and geotechnical capabilities exist such as a one-million-pound universal testing machine and several cubical cells for multi-axial testing of materials. A 40 ft. by 80 ft. structural strong floor with associated equipment permits the testing of a wide variety of structural configurations under controlled, both static and dynamic loading. The hydraulics and water resources research laboratories include excellent facilities in water quality and environmental engineering. A unique workstation laboratory for advanced decision support systems is available. Programs in construction management and building energy are well supported. A state-of-the-art building mechanical and energy laboratory is capable of testing full-scale, commercial building systems and their controls using a one-of-a-kind data acquisition and experimental control system.

The Environmental Engineering program maintains approximately 10,000 sq. ft. of laboratories in the areas of process research, environmental microbiology, environmental chemistry, water quality, air quality, molecular biology, toxicology, and field ecology. The Environmental Sustainability cluster and the Center for Environmental Mass Spectrometry offer formal collaborations between the CU-Boulder Environmental Engineering Group, Mechanical Engineering air research group, the US Geological Survey, and industry partners, providing state-of-the-art facilities for research and teaching.

The Center for Advanced Decision Support for Water and Environmental Systems (CADSWES) is an interdisciplinary center of excellence, housed within the Department of Civil, Environmental, and Architectural Engineering. CADSWES focuses on applying advanced computing techniques to provide decision makers with decision support systems (DSSs) to help them more effectively manage water and environmental systems.

Current research covers such topics as water and wastewater treatment, surface and subsurface contaminant transport, decision support systems, hydraulic research, land treatment, rapid infiltration, and activated sludge processes. Cost prediction in construction, construction management, energy conservation in buildings, solar applications, and lighting systems are included. Advances in soil mechanics, rock mechanics, soil dynamics and geotechnical earthquake engineering, foundation engineering, computational geomechanics, centrifugal modeling, geosynthetics, and glacier flows have been produced. Research in structures includes stability, damage and fracture, material microstructures, durability, finite element modeling, reinforced concrete, earthquake responses, reinforced masonry structures, prestressed concrete, and dynamic control.

Course code for this program is CVEN.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

+ Dual Degree Programs

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Computer Science

Computer science is an exciting and challenging field that has impact on many parts of our lives. Computer scientists craft the technologies that enable the digital devices we use every day. They develop the large-scale software that powers business and industry, and advance the computational techniques and write the software that supports scientists in their study of the world around us. Many new applications of computing technology remain to be discovered. Indeed, computing will be at the heart of future revolutions in business, science, and society. Students who study computer science now will be at the forefront of those important advances.

Computer science is concerned with how computers are constructed, how they store and process data, how they are used in problem-solving, and how the quality of those solutions is assessed. It is about the science of creating software for a variety of users. It is about understanding how that software interacts with the hardware on which it is run. Computer science goes well beyond the machine to the study of how people interact with the technologies around them. Applications of computer science reach far and wide.

Computer science graduates from the University of Colorado Boulder are engaged in a wide variety of jobs with many different companies in locations all over the world. They produce the software and systems that touch lives every day in fields ranging from communications to finance to publishing. They are, of course, software developers, but also have become teachers, writers, doctors, lawyers, scientists, military leaders, and entrepreneurs. They work at some of the largest, most influential companies in the world, at research institutions, non-profits, and at the smallest start-ups of every type imaginable. And many lead highly successful companies that they themselves have founded.

Program Objectives

Within three to five years after graduation, computer science graduates:

- are prepared to be valued individual contributors in a software-oriented organization, to be programmers and designers in an entrepreneurial pursuit, to lead small projects and generally begin preparation for a management career, or to succeed in rigorous postgraduate programs.
- are able to focus their careers on pure computer science technology or to bring computer science expertise to a companion discipline.
- are prepared, where appropriate, to specialize in a broad spectrum of computer science sub-disciplines, ranging across formal computer science (e.g., computational science, bioinformatics, and theory), cognitive science (e.g., human/machine learning, human-computer interaction, collaborative work, and human language technologies), and core computing (e.g., systems, networks and software engineering).

Program Outcomes

Students completing the undergraduate degree in computer science will possess:

- an ability to apply knowledge of computing and mathematics appropriate to the discipline.
- an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
- an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
- an ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.
- an understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.
- an ability to communicate effectively about computing topics with a range of audiences.
- an ability to analyze impacts of computing on individuals, organizations, and society.
- a recognition of the need for and ability to engage in continuing professional development.
- an ability to use current techniques, skills, and tools necessary for computing practice.
- an ability to apply mathematical foundations, algorithm principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- an ability to apply design and development principles in the construction of software systems of varying complexity.

Department Computing Facility

The Department of Computer Science supports its own domain, www.cs.colorado.edu, and a modern computing infrastructure that supports its research and educational missions. The department has a variety of computing facilities for use by faculty, staff, and students. These include general purpose computing labs provided by the university, additional instructional labs and administrative computing resources provided by the department, and specialized labs dedicated to the work of individual research groups. A wide variety of computing resources are available so that students have the opportunity to learn about and use cutting-edge equipment and software.

Course code for this program is CSCI.

Minor Program

The department offers a minor in computer science that is available to undergraduates on the Boulder campus. The minor offers a basic introduction to the field of computer science; requirements may be found at www.colorado.edu/cs/bsms-degree/minor.

[+ Bachelor's Degree Program\(s\)](#)

[+ Graduate Degree Program\(s\)](#)

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Electrical, Computing, and Energy Engineering

Electrical, computer, and energy engineering is about the science and technology of information and energy. Two undergraduate curricula lead to bachelor's degrees: one in electrical engineering, and another in electrical and computer engineering. These curricula are revised frequently to keep pace with changes in this dynamic field.

Up-to-date curricula and policies are contained in the department's *HELP! Guide*, available through the department and on the Web at ecee.colorado.edu.

Career Opportunities

A degree in electrical engineering or electrical and computer engineering provides graduates the opportunity to enter the profession of engineering and to engage in work as a design, production, testing, consulting, research, teaching, or management professional in a wide variety of careers in the computer industry, telecommunications, instruments, the power and renewable energy industry, the biomedical industry, aerospace, and academia. Some graduates also go on to develop careers in other professions like law and medicine.

Examples of career opportunities include development of new electrical or electronic devices, instruments, or products; design of equipment or systems; production and quality control of electrical products for private industry or government; sales or management for a private firm or government; and teaching and research in a university.

Research Centers

Colorado Power Electronics Center (CoPEC). Since it was founded in 1983, the power electronics group at the University of Colorado has maintained a tradition of innovative design-oriented and application-driven research. Colorado Power Electronics Center (CoPEC) activities now span the range of applications from high-efficiency milliwatt converters for portable battery-operated systems, to hundreds or thousands of watts for computer, aerospace, telecommunications, medical, and automotive power conversion, to hundreds of kilowatts for wind generation systems.

Our current research activities include projects in high-efficiency, high-power converter technology, power electronics for portable, battery-operated systems, converter modeling and computer-aided analysis, low harmonic rectifier technology for single-phase and three-phase applications, and advanced control techniques and their mixed-signal ASIC implementation. We collaborate with other research groups at the University of Colorado, including those in machines and power systems, microelectronics packaging, EMI, control, and semiconductor devices. For more information call **303-492-7327** or visit ecee.colorado.edu/~pwrelect.

The University of Colorado Center for Environmental Technology (CET). Understanding and managing the environment—whether for agriculture, health, water resources, disaster mitigation, energy generation, transportation, weather forecasting, climate modeling, or biodiversity—requires accurate knowledge of many variables on a wide range of time and space scales. Measurements for environmental purposes are made either using in situ or remote sensors, and rely upon a variety of different means, including acoustic and electromagnetic waves, point measurements and wide-area imaging, and active and passive systems. A variety of different types of platforms can be used for environmental observation, including ships and submersibles, aircraft (both manned and unmanned), spacecraft, and stationary sites.

Research and educational activities at the CU Center for Environmental Technology are focused on developing sensors, systems of sensors, and associated hardware and algorithms for environmental observation with a focus on new remote and in situ techniques to meet contemporary scientific and applications goals. This is accomplished by direct involvement of CU faculty, CET engineering staff, and undergraduate and graduate students on the development of sensing systems to meet the observational needs of a number of government and industry sponsors. CET training involves close interaction between students and experienced professional engineers, practicing scientists, and CU faculty.

The CET was established in 2006 with a major donation of equipment from the NOAA Earth System Research Laboratory, and has members, associates, and students from within the broad earth science and engineering communities of Colorado. For further information contact the CET director at **303-492-9688** or visit cet.colorado.edu.

Center for Research and Education in Wind (CREW). Launched in 2009, CREW is a consortium of over 70 wind energy researchers and educators from four institutions—the University of Colorado Boulder (lead institution), the National Renewable Energy Laboratory, the Colorado School of Mines, and Colorado State University. In CREW, faculty and researchers from the four institutions have come together to work to address the research and operational issues of wind energy in a coordinated manner as well as train a new generation of scientists, engineers, and managers. The center has also formed partnerships with the National Center for Atmospheric Research and the National Oceanic and Atmospheric Administration. Its research thrusts include atmosphere sciences, wind turbine and wind farm model development and validation, control of wind energy systems, electrical systems, and turbine testing, and a center-wide thrust on

education and outreach. For more information visit www.coloradocollaboratory.org/crew.html.

Research and Instructional Equipment

The department's special equipment and facilities include a class 1000 clean room facility for epitaxial growth and fabrication of microwave and optical devices; high-vacuum and vacuum deposition equipment for thin-films research; an integrated circuits laboratory; ion implantation equipment; crystal growing facilities; a modern systems laboratory; a laboratory for data storage research; a digital system design laboratory; a power electronics research laboratory; undergraduate laboratories in circuits, electronics; power electronics; digital signal processing and communications; embedded systems; microwaves; a holography and optics laboratory; an advanced optical metrology lab; numerous special purpose computers; micro-computer system development laboratory; a roof-mounted antenna range; a special microscope for laser manipulation of microorganisms in vivo; a bio-microwave laboratory; and a solar power lab.

The Department of Electrical, Computer, and Energy Engineering has a large variety of computing equipment to support its research and instructional activities. In addition to specialized computing equipment, this includes several hundred PC, Macintosh, a department server, and a student server. These machines are connected to the campuswide ethernet network.

Course code for this program is ECEN.

Minors

The following minors provide training in electrical, computer, or energy engineering beyond the training usually received by science, mathematics, and applied mathematics majors. These minors also can broaden the training of students majoring in other engineering and applied science fields. For more information, contact the department's office or visit www.colorado.edu/engineering/academics/degrees-minors-certificates/minors.

- Computer Engineering Minor
- Electrical Engineering Minor
- Electrical Renewable Energy Systems Minor
- Signals and Systems Minor

⊕ Bachelor's Degree Program(s)

⊕ Concurrent Bachelor's/Master's Program

⊕ Graduate Degree Program(s)

⊕ Certificate Program

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Engineering Management

Course code for this program is EMEN.

+ Graduate Degree Program(s)

+ Certificate Program

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Engineering Physics

The engineering physics program focuses on the foundations of modern technology. The program prepares students for research, development, and entrepreneurial careers in many frontier areas of engineering, including quantum devices, ultra fast lasers, adaptive optics, cryogenic electronics, computer simulation of physical systems, solar cells, magnetic storage technology, micro-mechanical systems, and molecular electronics. All students study the core theoretical subjects of mechanics, electricity and magnetism, thermal physics, and quantum mechanics, supplemented by courses in mathematics, computation, and laboratory technique. The program can be tailored to a student's interests through electives in engineering, physics, or other sciences.

Course code for this program is PHYS.

Minor Program

The Department of Physics offers a minor in physics. A detailed plan can be found at www.colorado.edu/physics.

+ Bachelor's Degree Program(s)

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Environmental Engineering

Environmental engineers play a vital role in maintaining the quality of both human environmental systems and the natural environment. Environmental engineering encompasses the scientific assessment and development of engineering solutions to environmental problems impacting the biosphere, land, water, and air quality. Environmental issues affect almost all commercial and industrial sectors, and are a central concern for the public, for all levels of government, and in international relations. These issues include safe drinking water, wastewater processing, solid and hazardous waste disposal, outdoor air pollution, indoor air pollution and transfer of infectious diseases, human health and ecological risk management, prevention of pollution through product or process design, and renewable and sustainable energy sources.

To address these challenges, environmental engineers often encounter challenging problems that must be solved in data-poor situations as members of multidisciplinary teams. Environmental problems require creative solutions blended with contributions from scientists, lawyers, business people, and the public. Good communication skills, as well as technical proficiency, are essential for success in this arena. In addition, technology designed to address environmental problems is marketed globally, opening up increasing opportunities for international work in the environmental engineering field.

The faculty of the Environmental Engineering Program (EVEN) is drawn from the Departments of Civil, Environmental, and Architectural Engineering; Mechanical Engineering; Chemical and Biological Engineering; and Aerospace Engineering. The EVEN faculty, its Professional Advisory Board (representing prospective employers of its graduates), and EVEN alumni and current students have contributed to the creation of the program's mission and the educational objectives of the EVEN BS degree.

Mission

The mission of the EVEN Program is to provide a multidisciplinary undergraduate environmental engineering education that emphasizes mastery of principles and practices, inspires service for the global public good, endows a desire for lifelong learning, and prepares students for broad and dynamic career paths in environmental engineering.

Educational Objective

The educational objective of the environmental engineering bachelor of science degree is to produce graduates who reach the following achievements three to five years after graduation:

- become established in professional careers and/or earn advanced degrees;
- apply multidisciplinary approaches to manage the unique challenges and balance the competing social, political, economic, and technical goals of environmental problems and solutions; and
- serve the needs of our society and protect the future of our planet in an ethical manner.

Program Outcomes

The Environmental Engineering Program demonstrates that its graduates:

- have sufficient knowledge of engineering, mathematics, and science fundamentals to succeed in environmental engineering practice or advanced degrees;
- have sufficient knowledge of advanced environmental engineering applications and complementary natural sciences to succeed in environmental engineering practice or advanced degrees;
- have sufficient knowledge of engineering approaches to problem solving (hypothesis, design, testing; team work) to succeed in environmental engineering practice or advanced degrees;
- have sufficient knowledge of basic engineering skills and tools (computer, laboratory, and field) to succeed in environmental engineering practice or advanced degrees;
- have adequate writing and oral presentation skills to succeed in environmental engineering practice or advanced degrees;
- have adequate understanding of the social, economic, political, and ethical context of environmental problems and solutions;
- have adequate opportunity to include service at the local, state, national, or global levels as an important part of their environmental engineering education; and
- recognize the importance of life-long learning by seeking advanced degrees and pursuing continuing education.

Course code for this program is EVEN.

[+ Bachelor's Degree Program\(s\)](#)

[+ Concurrent Bachelor's/Master's Program](#)

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Mechanical Engineering

The educational objective of the undergraduate program in mechanical engineering is to prepare graduates so that, within three years of graduation, they will have successfully established themselves in professional careers and/or obtained a graduate degree, and they will have begun to generate new knowledge or exercise leadership in their positions to the benefit of society.

Each graduate of the mechanical engineering program is expected to:

- apply knowledge of mathematics, science, and engineering;
- identify, formulate, and solve engineering problems;
- use computers to solve engineering problems;
- use modern instrumentation;
- design and conduct experiments, including the use of probability and statistics;
- analyze and interpret data;
- design systems, components, or processes to meet desired needs;
- understand the processes used to manufacture products;
- understand contemporary issues in mechanical engineering;
- make effective oral presentations;
- write effectively;
- function effectively on multi-disciplinary teams;
- understand professional and ethical responsibility;
- understand the impact of engineering in a global and societal context; and
- engage in lifelong learning.

Course code for this program is MCEN.

+ Bachelor's Degree Program(s)

+ Concurrent Bachelor's/Master's Program

+ Graduate Degree Program(s)

+ Dual Degree Programs

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Telecommunications

Course code for this program is TLEN.

➤ Graduate Degree Program(s)

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Environmental Design

JoAnn Silverstein, program director

314 UCB • phone: 303-492-7711 • fax: 303-492-6163

program
website: www.colorado.edu/envd



THE PROGRAM IN ENVIRONMENTAL DESIGN at the University of Colorado Boulder prepares students for graduate study and careers in **architecture, landscape architecture, urban design, and urban and regional planning**. With a diverse faculty committed to excellence in teaching, research, scholarship, and creative and professional work, the program provides students with a varied range of learning opportunities.

These courses of study prepare students for careers in some of the most exciting professions that shape the designed and built environment. In addition to the program's core design sequence, students will take a wide range of technology and theory courses. Many of these courses can be eligible for advanced standing in highly rated graduate programs throughout the country.

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Programs of Study

Graduate Degrees

The Graduate School of the University of Colorado Boulder offers instruction leading to the following advanced degrees:

- Master of Arts (MA)
- Master of Business Administration (MBA) (through Leeds School of Business)
- Master of Engineering (ME)
- Master of Fine Arts (MFA)
- Master of Music (MMus)
- Master of Music Education (MMusEd)
- Master of Science (MS)
- Doctor of Audiology (AuD)
- Doctor of Musical Arts (DMusA)
- Doctor of Philosophy (PhD)

Graduate Teacher Program

The [Graduate Teacher Program](#) provides for all graduate students with professional development opportunities, career consulting, videotape consultation, and teacher training.

Graduate Programs and Degrees

| | |
|---|-----------------|
| Aerospace Engineering Sciences | MS, PhD |
| Anthropology | MA, MA/MBA, PhD |
| Applied Mathematics | MS, PhD |
| Art and Art History | MA, MA/MBA, MFA |
| Asian Languages and Civilizations | MA, PhD |
| Astrophysical and Planetary Sciences | PhD |
| Atmospheric and Oceanic Sciences | MS, PhD |
| Biochemistry | (MS), PhD |
| Business Administration | MS, MBA, PhD |
| Chemical Engineering | ME, MS, PhD |
| Chemical Physics | PhD |
| Chemistry | (MS), PhD |
| Civil, Environmental, and Architectural Engineering | MS, PhD |

| | |
|--|--|
| Classics | MA, PhD |
| Cognitive Science | PhD (joint only) |
| Comparative Ethnic Studies | PhD |
| Communication (through Arts and Sciences) | MA, PhD |
| Communication (through Journalism) | PhD |
| Comparative Literature | MA, PhD |
| Computer Science | ME, MS, MS/MBA, PhD |
| Creative Writing | MFA |
| Curriculum and Instruction | MA, PhD |
| Dance | MFA |
| Ecology and Evolutionary Biology | MA, PhD |
| Economics | PhD |
| Education | MA, MA+, PhD |
| Electrical, Computer, and Energy Engineering | ME, MS, PhD |
| Engineering Management | ME |
| English | MA, MFA, PhD |
| Environmental Studies | JD/MS, JD/PhD, MS, MS/MBA, PhD |
| French | MA, PhD |
| Geography | MA, PhD |
| Geological Sciences | MS, PhD |
| Geophysics | PhD |
| German Studies | MA, MA/ MBA, PhD |
| History | MA, PhD |
| Information Communication and Technology for Development | MS |
| Integrative Physiology | MS, PhD |
| Interdisciplinary Telecommunications | JD/MS, ME, MS, MS/MBA, PhD |
| Journalism and Mass Communication | MA, PhD |
| Law | JD, JD/Canadian LLB, LLB, JD/MBA, JD/MD, JD/MPA, JD/MS, JD/MST, JD/MURP, JD/PhD, LLM, MS |
| Linguistics | MA, PhD |
| Materials Science and Engineering | MS, PhD |
| Mathematics | MA, PhD |
| Mechanical Engineering | ME, MS, PhD |
| Molecular, Cellular, and Developmental Biology (MCDB) | PhD |
| Museum and Field Studies | MS |
| Music | MM, MMed, DMA, PhD |
| Neuroscience | PhD (joint only) |
| Philosophy | MA, PhD |
| Physics | PhD |
| Political Science | MA, PhD |

| | |
|--------------------------------|-----------------|
| Psychology | PhD |
| Religious Studies | MA |
| Sociology | (MA), PhD |
| Spanish | MA, PhD |
| Technology, Media, and Society | PhD |
| Theatre | MA, MA/MBA, PhD |

Inquiries regarding admission to graduate programs should be addressed to the graduate department in which the applicant wishes to study (see the [University of Colorado Boulder Directory](#) for campus addresses or see www.colorado.edu).

Interdisciplinary and Certificate Programs

A wide variety of graduate [interdisciplinary and certificate programs](#) is offered at CU-Boulder.

Concurrent Bachelor's/Master's Degree Programs

Concurrent BS/MS and BA/MA degree programs are offered in several departments at CU-Boulder. These programs allow a student to receive both a bachelor's and master's degree in five years of study without compromising the academic integrity of either degree.

Currently approved concurrent degree programs in the **College of Arts and Sciences** are offered in:

- art and art history
- Chinese/Asian languages and civilizations
- classics
- ecology and evolutionary biology
- engineering physics/physics
- film studies/art history
- French
- German studies
- integrative physiology
- Japanese/Asian languages and civilizations
- linguistics
- mathematics
- mathematics/applied mathematics
- physics
- psychology (cognitive)
- religious studies

Currently approved concurrent degree programs in the **Leeds School of Business** are offered in:

- accounting
- finance/accounting
- information mangemant/telecommunications
- systems/accounting

Currently approved concurrent degree programs in the **College of Engineering and Applied Science** are offered in:

- aerospace engineering

- applied mathematics
- architectural engineering
- chemical engineering
- chemical and biological engineering
- civil engineering
- computer science
- electrical and computer engineering
- electrical engineering
- environmental engineering
- mechanical engineering
- telecommunications/information management

These concurrent degree programs are open only to highly qualified CU-Boulder undergraduates. Students are formally admitted at the end of their sophomore year or the beginning of their junior year. They are admitted through the admission procedure of their department and do not go through the normal process of admission to Graduate School. When students have completed the program requirements, they receive both a bachelor's and a master's degree simultaneously. Students wishing to continue studying toward a doctorate must formally apply for admission to the Graduate School.

Students interested in a concurrent bachelor's/master's program should inquire in the department.

Dual Degree Programs

In an environment where there is a rapidly increasing desire for interdisciplinary and professional skills, receiving two master's degrees in complementary fields can be a real asset. Contact the individual departments for details.

Combinations with MBA

- anthropology/MBA
- computer science/MBA
- environmental studies/MBA
- German studies/MBA
- telecommunications/MBA
- theatre/MBA

Combination within the Graduate School

- applied math/MCD Biology
- audiology/speech, language, and hearing sciences (both through the Department of SLHS)
- engineering management/telecommunications
- music (two areas)
- religious studies/Asian languages/history (any two)

Combination with Law

- environmental studies/law
- business/law
- juris doctor/bachelor of laws with the University of Alberta faculty of law, Canada
- medicine/law
- public administration/law

telecommunications/law

- urban and regional planning/law

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Programs of Study

The Journalism and Mass Communication Program (JMC) enrolls 750 students in **five sequences**. Students begin with a broad education in the liberal arts through the College of Arts and Sciences core requirements and finish with a robust additional field of study and superior professional preparation and media studies instruction. The field of study will be a concentration in content area outside of JMC such as political science, philosophy, history, economics, and so forth. It will consist of a minimum of 30-36 semester hours, depending on the field selected. Students should start their additional field of study during their freshman year.

In addition to the required courses, JMC offers all students a wide range of classes in many aspects of media practice including photojournalism, electronic and digital journalism, advertising creative development, consumer behavior, publication design, magazine article writing, public relations principles and projects, and communication law.

Media criticism and analysis are also broadly represented in the curriculum through courses such as media institutions and economics, media ethics, mass communication history, media culture and globalization, and special-topics offerings.

Students who intend to apply to JMC complete their freshman year of undergraduate work (a minimum of 30 semester hours) typically in JMC as prejournalism and mass communication majors.

Upon completion of their studies, students receive a bachelor of science degree in journalism from one of five sequences:

- Advertising
- Broadcast News
- Broadcast Production
- Media Studies
- News-Editorial

and an emphasis in an additional field of study.

Course code for this program is JOUR.

+ Bachelor's Degree Program(s)

+ Graduate Degree Program(s)

+ Certificate Program

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Law

The course code for this school is LAWS.

➤ Graduate Degree Program(s)

➤ Dual Degree Programs

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Music

- [+ Bachelor's Degree Program\(s\)](#)
- [+ Graduate Degree Program\(s\)](#)
- [+ Dual Degree Programs](#)
- [+ Certificate Program](#)

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Continuing Education

On This Page:

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- [Individualized Instruction](#)
- [CU Complete](#)
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- [Independent Learning Program](#)
- [Center for Advanced Engineering and Technology Education \(CAETE\)](#)
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- [ACCESS and High School Concurrent Programs](#)
- [Extraordinary Program](#)
- [International English Center](#)

The mission of the Division of Continuing Education is to provide quality, innovative, lifelong learning opportunities to a diverse student population by extending the educational resources of the University of Colorado Boulder. A variety of credit courses, noncredit programs, certificate programs, and seminars is offered through Continuing Education, which also administers CU-Boulder's Summer Session. Only university-approved faculty teach in Continuing Education programs.

The office is located at 1505 University Avenue in Boulder, **303-492-5148** (or **1-800-331-2801**). The fax number is **303-492-5335**, and the website is conted.colorado.edu.

Boulder Evening Credit Program

Offered in conjunction with CU-Boulder's academic departments, the Boulder Evening Program provides credit courses in the evening on the Boulder campus. These affordable, smaller-sized classes are provided through various departments including anthropology, communication, economics, English, film studies, art and art history, geography, mathematics, philosophy, psychology, sociology, Spanish, theatre, and more.

Independent Learning Program

The Independent Learning Program offers online courses representing and approved by more than 20 departments on campus. Term-based courses follow a traditional semester schedule and allow for rich interaction with the instructor and other classmates. Self-paced courses offer students the flexibility of progressing through the course at their own pace, and to finish in less than a full semester or take up to six months.

Applied Music Program

The Applied Music Program offers students the opportunity to earn CU credit for beginning or continuing music lessons on guitar, piano, voice, organ, winds, brass, drums, percussion, or strings. Instruction is available in individual or group sessions depending on instrument.

Individualized Instruction

Individualized Instruction provides an opportunity for students to receive credit for university courses by meeting with faculty members outside the regular classroom setting. This option may be used when the student cannot reasonably be expected to enroll in the main campus course.

Center for Advanced Engineering and Technology Education (CAETE)

CAETE, a partnership between the College of Engineering and Applied Science and the Division of Continuing Education, serves as the distance learning and professional studies arm of the

college. CAETE provides graduate engineering and technical education and professional development for practicing engineers and managers of technology. Course sequences may lead to a master's degree in aerospace engineering, computer science, electrical and computer engineering, engineering management, or telecommunications. Elective courses are also offered in civil/environmental and mechanical engineering. Graduate certificates and short courses are available in some fields. CAETE also provides ongoing access to over 100 pre-recorded courses via its virtual library. These courses are available for academic course work, rental, or purchase by companies for in-house training.

ACCESS and High School Concurrent Programs

In conjunction with CU-Boulder academic departments, ACCESS (Available Credit Courses for Eligible Special Students) enables nondegree students to enroll in Boulder main campus undergraduate and graduate credit courses after most degree-seeking students have registered. Colorado high school juniors and seniors interested in the challenge of university course work may enroll in ACCESS as part of the High School Concurrent Program. In addition to earning college credit, students may also earn credit toward high school graduation requirements.

Extraordinary Program

Through Continuing Education, academic departments can offer special courses that target audiences both on and off campus and provide academic credit for those offerings. Once a course proposal is submitted, Continuing Education coordinates the approval process and provides administrative support to the course initiator. Programs initiated from outside the university community may be considered for approval as well as noncredit and certificate programs.

CU Complete

The goal of CU Complete is to assist former students in the completion of degrees they began at CU in the past. Advisors work with each student individually and offer a degree analysis, recommendations, resources, and assistance in completing remaining requirements.

Science Discovery

Science Discovery is a hands-on science, mathematics, and technology outreach program that serves over 1,500 teachers and 25,000 K–12 students each year. Its mission is to stimulate scientific interest, understanding, and literacy through the use of university resources and academic expertise. Core programs include over 500 annual classroom presentations throughout Colorado; approximately 200 summer and after-school classes for ages 4–14; a series of statewide professional development workshops for teachers; and various outdoor environmental education classes.

International English Center

The International English Center (IEC) offers language learning, cultural adjustment, and academic preparation programs for international students planning to matriculate at universities and for members of the campus and local community with limited English proficiency. The IEC also contracts with corporate groups to provide language training and professional development courses.

Outreach: Reaching Off Campus and into Communities

Extending educational opportunities to the citizens of Colorado is a vital part of the university as well as the mission of the Division of Continuing Education. CU-Boulder faculty and students provide a wide variety of outreach programs to communities across Colorado. These programs extend the scholarship of the faculty and the educational resources of the university and serve various educational, social, economic, and cultural needs. The division annually supports these efforts by designating funds for the CU-Boulder Outreach Committee along with contributions from the offices of the chancellor and the provost. The committee awards funding to faculty projects designed specifically for external audiences that highlight faculty research, creative work, and teaching. Projects feature an extensive range of disciplines, including everything from history, dance, and musical arts to physics, math, and engineering.

Summer Session and Maymester at CU-Boulder

Summer Session offers over 500 campus courses and enrolls about 8,000 students in a relaxed, comfortable learning environment. Online and on-campus courses are available to students who wish to enhance or accelerate their academic progress. Courses are also open to students visiting from other colleges, teachers, high school students, or others interested in pursuing their professional development or enrichment.

Maymester is a special three-week Summer Session term immediately following the end of spring semester. It provides intense, accelerated courses for those who need academic credits in an abbreviated time period.

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Leadership, Certificate in the Study and Practice of

The certificate program in leadership development seeks to expand a students' capacity to be effective in leadership roles and opportunities during their time at CU and in their future professions. The program enhances a student's self-awareness, systemic thinking, creativity, and problem-solving skills. This development unfolds over a student's undergraduate career and is maximized by a variety of courses and experiences that challenge, support, and provide students with increased understanding of what they are learning and how it fits into the larger world. The Certificate in the Study and Practice of Leadership integrates the variety of experiences into a context that is likely to be useful when undertaking new leadership roles and responsibilities. Faculty and staff skilled at weaving those experiences and courses in connected and meaningful ways facilitate this developmental process.

A leadership certificate can enhance the undergraduate experience and better prepare students both as citizens and leaders in whatever profession they might seek to enter. The program recognizes the need for individuals to take leadership roles in all professions and sectors of society. It is the belief of the program that leadership can be learned in formal classes, community-based leadership opportunities, mentoring and internship settings, as well as through a range of collaborative leadership activities.

For more information about the Certificate in the Study and Practice of Leadership, see leadershipRAP.colorado.edu/certificate-study-and-practice-leadership.

Program Requirements

This certificate program has an 18-credit-hour requirement comprised of lower- and upper-division courses. Undergraduate students working toward this certificate are usually affiliated with one of the following academic programs:

- Leadership Residential Academic Program
- Presidents Leadership Class (PLC)
- INVST Community Studies (INVST)
- ROTC programs

Each of these programs has defined particular academic courses within their programs to be certificate requirements. Students may also apply elective courses from other disciplines on campus toward the total credits required for the certificate. Students in the leadership programs at PLC, INVST, and the Leadership RAP are required to do an internship that is overseen by one of the program directors. Students in all four programs participate in either a 4-credit-hour capstone course during their senior year or a capstone project mentored by their academic program director. To qualify for the certificate, students must maintain a 3.00 GPA in the required course work.

Leadership Residential Academic Program

For certificate requirements, see [The Leadership RAP Program](#).

Presidents Leadership Class

PLC certificate requirements are listed under the [Presidents Leadership Class](#).

INVST Community Studies

- Selection criteria govern admissions.
- Four required theory courses plus community based service-learning experiences (18–24 credits).
- Minimum of 15 hours of upper-division courses.
- INVS 4932 Senior Capstone Course and/or Project.
- Minimum total credit hours: 18 with a 3.00 GPA

Reserve Officer Training Corps Programs

- Admission to CU-Boulder and ROTC required. (Some courses are open to all CU-Boulder students.)
- Required summer field training program(s).
- 4–8 required courses in ROTC (12–22 hours).
- Minimum of 15 hours of upper-division courses.
- Additional courses from Recommended Leadership Courses to complete the 18-hour requirement.
- Senior Capstone Course and/or Project (4 hours).
- Minimum total credit hours: 18 with a 3.00 GPA.

The Capstone Course and Project

The capstone project is designed to synthesize the leadership work students have completed during their undergraduate studies. Together with the program's faculty, students design a format that demonstrates their cumulative learning and development and reflects their leadership abilities. Like oral examinations at the graduate level, these projects are an opportunity for students to present a body of work that demonstrates what they have learned as they address some of the critical questions associated with leadership development and their role as a leader in the 21st century.

In the capstone course, Critical Issues in Leadership, LDSP 4010 or PRLC 4010, students explore leadership issues across disciplines. Leadership education is multi-disciplinary and students need to know how to assess research and writing from different perspectives. Students read, discuss, and write critical evaluations of contemporary leadership theory from ethical, military, community building, and business perspectives.

Internships

Internships are an agreed-upon experience in a work setting that is driven by intentional learning goals and accompanied by sustained reflection. The internship provides students with an opportunity to apply the skills and knowledge gained through their leadership studies. During the semester students use the concepts and theories learned in the classroom to analyze and understand the host organization. In addition, students are asked to reflect on the complexities of leadership and the personal challenges that they face in practicing and refining their own leadership skills.

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Leadership Residential Academic Program

The Leadership Residential Academic Program (RAP) in Kittredge Central houses two academic programs for students with an interest in leadership studies: the **Ethnic Living and Learning Community Leadership Studies Program (ELLC)** and the **Chancellor's Leadership Studies Program (CLSP)**.

Admission and Enrollment. Students select one of the leadership programs in the Leadership RAP during the housing application process prior to beginning their freshman year. When students choose their residence hall they are given the option to enroll in one of these programs. Most participants reside at Kittredge Central. More information about these programs can be found at LeadershipRAP.colorado.edu.

The Ethnic Living and Learning Community Leadership Studies Program

The Ethnic Living and Learning Community Leadership Studies Program (ELLC) offers students a multicultural living and learning experience and the opportunity to study leadership from a multicultural and global perspective. Students are required to take a 3-credit-hour leadership course and the ELLC Practicum each semester of their freshman year. In these courses, students explore their roles and responsibilities in society including the moral and ethical dimensions of leadership. Students also learn about contemporary issues related to leadership and take part in activities that develop teamwork, ethical decision making, and problem solving. Credits earned from these courses may be applied toward graduation as well as a Certificate in the Study and Practice of Leadership.

ELLC Curriculum and Semester Credit Hours

- LDSP 1000 The Foundations of 21st Century Leadership (fall)—3
- LDSP 2400 Understanding Privilege and Oppression in Contemporary Society (spring)—3
- LDSP 2910 Field Practicum (1 credit each semester of freshman year)—1
- LDSP 3100 Multicultural Leadership: Theories, Principles and Practices—3
- LDSP 4010 Critical Issues in Leadership—4

Fees and Scholarship Opportunities

There is a \$850 program participation fee. Some scholarships to cover the fee are available for students with financial need. A LEAD Alliance scholarship of \$1,500 per year is also available to qualifying ELLC students.

The Chancellor's Leadership Studies Program

The Chancellor's Leadership Studies Program (CLSP) examines the academic foundations of leadership and engages students in practical applications of leadership through simulations and class projects. Utilizing an experiential learning model, students learn the basics of decision making, problem solving, dialogue skills, ethical reflection, and an understanding of how institutions and communities solve problems. Students take a required 3-credit-hour leadership course fall semester and must take at least one CLSP course in the spring. Credits earned from these courses may be applied toward graduation as well as a Certificate in the Study and Practice of Leadership.

CLSP Curriculum Semester Credit Hours

- LDSP 1000 The Foundations of 21st Century Leadership (fall)—3
- LDSP 1571 Topics in Leadership—1
- LDSP 2400 Understanding Privilege and Oppression in Contemporary Society (spring)—3
- LDSP 2910 Field Practicum—1
- LDSP 3100 Multicultural Leadership: Theories, Principles and Practices —3

- LDSP 4010 Critical Issues in Leadership—4

Fees and Scholarship Opportunities

There is a \$850 program participation fee.

➔ Certificate Program

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Library Research

Several courses in information access and library research methods are offered to students who wish to explore the structure, organization, retrieval, and evaluation of information for their study and career needs. For more information, go to the [Courses](#) section and search for Library Research (LIBR).

Course code for this program is LIBR.

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Norlin Scholars Program

Being a Norlin Scholar at CU-Boulder helps students mindfully develop their capacities to the full and prepares them to make a conscious contribution to the world. Students gain self-awareness, balance and confidence; they flex their learning boundaries and get more comfortable with ambiguity and complexity. Our scholars enjoy intellectual camaraderie, establishing close and lasting friendships with other students and teachers. They're encouraged to gain a broad perspective through service experiences, international study, and merging their academic interests with community issues. In addition to the structured components of the program—courses, mentoring, and activities—students informally share music, art, and other talents, having many opportunities to share their own knowledge, experiences, and stories with the group. These skills and activities put students in a strong position for whatever comes next: the job market, graduate and professional schools, or fellowships.

Benefits of being a Norlin Scholar include:

- \$4000 scholarship per academic year
- additional funding for enrichment activities like research or study abroad
- small, invigorating core and elective courses
- research or creative projects with faculty
- access to top scholarship advising and guidance
- opportunities for professional training and development
- a stimulating, interdisciplinary peer group

Students from all majors, including undecided, can apply as high school seniors for a four-year scholarship or as second year college students for a two-year scholarship. Norlin applicants must apply to CU first, though they need not be an admitted student.

Financial Information

Each Norlin Scholar receives a merit-based award of \$4,000 per year with the possibility of additional funds for enrichment projects. Students who enter the program as freshmen receive a four-year award, contingent upon academic progress; students who enter as rising juniors receive a two-year award, contingent upon academic progress. Students who need additional financial assistance should complete the FAFSA (Free Application for Federal Student Aid).

Applying to the Program

A flexible selection system ensures that students with many different interests, talents, and majors are accepted as Norlin Scholars. Students may apply either as high school seniors (to enter the program as incoming first-year students) or as second-semester sophomores in college (to enter the program as juniors). Colorado residents as well as out-of-state and international students are eligible. Applicants should demonstrate excellent academic and/or creative ability and must have already applied to the university for admission in order to apply for the scholarship. More information and application details can be found at enrichment.colorado.edu/norlinscholars or call **303-735-6802**.

The course code for this program is NRLN.



Preprofessional Programs

Preprofessional advising resources have been developed at CU-Boulder to help undergraduate students, and previously graduated students, prepare for further study at professional schools. Except for prejournalism, CU-Boulder does not offer preprofessional undergraduate majors or degrees. Completion of preprofessional prerequisites does not guarantee admission to a professional school. However, preprofessional advisors are well-equipped to provide information about professional schools within Colorado, and beyond, and can help students to prepare well for further professional study.

Prehealth Programs

Students can prepare to enter the undergraduate professional health science program at the Anschutz Medical Campus of University of Colorado Denver in the area of nursing by taking courses on the Boulder campus.

Students whose goals include entering the medical, dentistry, physical therapy, physician assistant, pharmacy, or public health programs and schools at the University of Colorado Denver, or the veterinary medicine or occupational therapy programs at Colorado State University in Fort Collins, can complete any undergraduate major at CU-Boulder. In most cases, these students are required to complete a baccalaureate degree before entering professional school. In fact, a baccalaureate degree is recommended for most health professions.

At the time of application to a professional school, students are judged on several factors, including performance in undergraduate courses. For this reason, no required course may be taken on a *pass/fail* basis. Some fields require specific preprofessional examinations before application. For most fields, interviews are an essential part of the application process.

In all cases, admission committees are concerned with students' compassion, coping and decision-making abilities, intellectual capabilities, realistic self-appraisal, sensitivity in interpersonal relations, and staying power (physical and motivational). In addition to formal course work, students should have experience in people-related activities (especially those related to their field of choice), so they can be more certain of their motivation for health careers. Also, health-related activities expose premed and other health science hopefuls to various patients and illnesses. The health professions require, or strongly recommend, such experience.

Some of the professional programs at the Anschutz Medical Campus give preference to Colorado residents and residents of WICHE (Western Interstate Commission on Higher Education) states; interested students should check with individual programs for specific policies. Students from other states usually can obtain at CU-Boulder the preprofessional courses required by their state schools, but should check with those schools in advance. Students are encouraged to apply to their state school, as well as to other public and private professional schools, to increase their chances of gaining acceptance to the professional program of their choice.

During the preprofessional years, personal intellectual development leads many students to change professional goals. Since there are usually more applicants for these programs than there are spaces available, many students need to pursue alternative goals. Under these circumstances, students should plan college programs to give themselves the greatest flexibility in considering other vocations.

Advising for preprofessional study in the health sciences is conducted through the Preprofessional Advising Office in the University Club. Check the prehealth advising website at www.colorado.edu/aac/prehealth.html for information on prerequisite courses, events, volunteer opportunities, student prehealth organizations, applications, and many other useful resources. Students should attend a prehealth advising session at orientation and then schedule an appointment with a prehealth advisor (aac.colorado.edu) early in their undergraduate careers to help plan course work and extracurricular experience in preparation for applying to programs of their choice. CU-Boulder also offers an extensive array of workshops and informational meetings, interview workshops, a fall speaker series, and a spring Health Professions Information Day.

Prejournalism

A specific prejournalism and mass communication option is offered at CU-Boulder in the Journalism & Mass Communication Program. Students complete two prerequisite courses while working toward arts and sciences core curriculum requirements. For more information, see [Journalism & Mass Communication](#) in this catalog or visit the program website at journalism.colorado.edu.

Prelaw

Students who plan to apply to law school upon completing their baccalaureate degree do not have to complete any specific course requirements for admission to law school. Instead, they should major in the discipline that best suits their intellectual interests and talents. Prelaw students should seek a rigorous and broad-based education that will ensure them a fundamental understanding of American society and its institutions. Students should become familiar with mathematical analysis and scientific reasoning, and develop excellent oral and written communication skills.

Prelaw advising is available in the Preprofessional Advising Center. In addition, there are faculty members who have special interest and expertise in the theoretical and practical aspects of the law and judicial systems. These faculty advisors are available for consultation with students on the CU-Boulder campus. Contact the Preprofessional Advising Center in University Club 111 for more information.

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Presidents Leadership Class

The Presidents Leadership Class (PLC) is a specially designed, top scholar, academic curriculum that focuses on leadership development, personal development, community impact projects, and global initiatives. Skills are developed in interdisciplinary, experiential environments through exposure to government, education, the humanities, business, and science. Students from all of the schools and colleges participate in the Presidents Leadership Class curriculum as a part of their regular course work.

The Presidents Leadership Class is a program of CU-Boulder and has an Advisory Board representing Colorado business, educational, nonprofit, and government communities.

Admission and Enrollment

Admission to the Presidents Leadership Class is considered one of the highest honors awarded to incoming University of Colorado Boulder students. Most Presidents Leadership Class students are admitted prior to the beginning of their first year, however, a maximum of 15 spots are reserved for rising sophomores and juniors in a second point of entry. Selection criteria include academic excellence, demonstrated commitment outside of self, demonstrated leadership potential, and uniqueness of contribution to the incoming cohort. Each year, 50 first-year students are enrolled, comprising both Colorado residents and nonresidents. A separate admission application must be obtained from the PLC website and returned each academic year prior to February 15. Applications may be obtained online at www.presidentsleadershipclass.org/prospective_students/apply_for_plc or by calling the PLC office at **303-492-4PLC**.

Only students who are accepted into the Presidents Leadership Class are eligible to enroll in PLC courses (PRLC). Students receive arts and sciences core credit in ideals and values for PRLC 1810 Leadership and Ethics; and core credit in contemporary societies for PRLC 1820 Community Issues in Leadership.

Academic Program

PLC believes that communities, from local to global, are especially in need of agile leaders who are able to tackle problems that: are very complex; are best understood by synthesizing insights from across disciplines; are best addressed by mobilizing diverse participants and resources from across social sectors; require especially ingenious innovation; and finally, demand leadership of exceptional integrity, ethics, and virtue of character.

To cultivate leaders who are prepared to serve their community, PLC provides a variety of academic and experiential opportunities that prepare students to lead according to this leadership process: discover, design, act, and accountability.

PLC provides opportunities by uniting the support of the university, local, and statewide leaders. PLC operates as a "leadership laboratory" in which all students, staff, faculty, and volunteers model and practice the core competencies and demonstrate the character traits that PLC strives to cultivate. The academic curriculum is supplemented by experiential learning and leading, a Wilderness Leadership Experience, and a new Global Inquiry seminar.

For more information on the PLC Academic Plan and the research behind it, go to www.presidentsleadershipclass.org.

Required Courses

- PRLC 1810 Ethical Leadership
- PRLC 1820 Community Issues in Leadership
- PRLC 2820 Multilevel Issues in Leadership
- PRLC 3810 Global Issues in Leadership
- LDSP 4010 Critical Issues in Leadership: A Capstone Course (required only for Leadership Certificate completion)

Scholarship Programs and Opportunities

PLC students receive a merit-based scholarship of \$1,000 their first year to over \$12,000 (dependent upon participation) over the course of their four years in PLC. Students must enroll in PRLC course work to maintain their scholarship. PLC students are eligible to apply for Enrichment Fund scholarship dollars each semester after the completion of their first year (maximum \$1,000 per semester; \$3,000 total).

Scholars are also eligible to be selected for a variety of other merit-based scholarships only available to PLC students, including the FirstBank Colorado Scholarship Fund (\$3,500 per year, students are nominated and selected by FirstBank board members), the Alvin G. Flanigan Scholarship Fund (annual \$500 minimum awards), the Walker Family Scholarship Fund (annual \$500 minimum awards), the Michael Lee Hoelscher Memorial Scholarship (annual \$2,000 award).

The course code for this program is PRLC.

 Certificate Program

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Reserve Officer Training Corps

Enrollment in Reserve Officer Training Corps (ROTC) programs is open to both men and women, and ROTC lower-level leadership courses are open to all students whether or not they contract with ROTC.

All services provide undergraduate and selected graduate students with the opportunity to combine academic study with a military officer's educational program. The three services conduct courses in their respective areas leading to a regular or reserve commission upon graduation. The Navy also offers a program leading to a regular commission in the Marine Corps.

The course codes for these programs are AIRR, MILR, and NAVR.

Air Force Aerospace Studies

U.S. Air Force ROTC offers several programs leading to a commission in the U.S. Air Force upon receipt of at least a baccalaureate degree.

Standard Four-Year Program

This standard program is designed for incoming freshmen, or any student with four years remaining until degree completion. It consists of three parts: the general military course (GMC) for lower-division (normally freshman and sophomore) students; the professional officer course (POC) for upper-division students (normally juniors and seniors); and the leadership laboratory (LLAB) attended by all cadets. Completion of a four-week summer field training program is required prior to commissioning.

Modified Four-Year Program

Certain undergraduate and graduate students may be eligible for this program. It is offered to full-time, regularly enrolled degree students and requires at least five semesters of full-time college work (undergraduate or graduate level, or a combination). May only be available to students pursuing academic majors in demand. Those selected for this program must complete the field training program during the summer months as a prerequisite for entry into the professional officer course the following fall semester.

Leadership Lab

All AFROTC cadets must attend leadership lab (two hours per week). The laboratory involves a study of Air Force customs and courtesies, drill and ceremonies, career opportunities, and the life and work of an Air Force junior officer.

Other Air Force ROTC Programs

Other programs are frequently available based on current Air Force needs. The unit administrative officer in Boulder (**303-492-3128**) can discuss the best alternatives. Interested students should make initial contact as early as possible to create the best selection opportunity, as selection is on a competitive basis. There is no obligation until a formal contract is entered.

Air Force College Scholarship Program

Normally a scholarship board is held at the end of each semester for students who have at least one semester of full-time college credit. Prior participation in AFROTC may not be required to compete for these scholarships. Students can compete for scholarships in most academic majors. Students selected for this program receive scholarships that pay up to \$18,000 in tuition, a book allowance, nonrefundable educational fees, and subsistence each month, tax-free. These scholarships are available in all academic disciplines and are two to three years in length.

USAF Medical Programs

Qualified nursing students can compete for nursing scholarships. These scholarships can lead to a career as an Air Force officer, serving as a nurse. Students may also compete for a prehealth designator. If selected, they would receive a scholarship for medical school.

Air Force ROTC Course Credit

AFROTC credit for graduation varies with each college. Students should contact the appropriate college for credit determination.

Registration

CU-Boulder students who wish to register for AFROTC classes sign up for them through the normal course registration process.

Military Science (U.S. Army)

The Department of Military Science is a leadership program leading to an officer's commission in the Active Army, Army Reserve, or National Guard in conjunction with an undergraduate or graduate degree. Military science courses supplement a regular degree program and offer practical leadership and management experience. Scholarships are available for those that qualify. Additionally, financial benefits may be available for enlisted soldiers.

Four-Year Program

For college freshmen, the four-year program consists of two phases: the basic course (freshman and sophomore years) and the advanced course (junior and senior years).

Basic courses (MSI & MSII) cover Army history and organization as well as military leadership and management. Labs provide the opportunity to develop leadership experience while learning basic military skills. Participating in the basic courses incur no military obligation, except for those receiving an Army scholarship.

Advanced courses (MSIII & MSIV) cover leadership, tactics and unit operations, training techniques, military law, and professional ethics. Additionally, a four-week summer leadership camp at Fort Lewis, Washington, is a requirement between the Junior and Senior year, and is a prerequisite for commissioning. Students enrolled in the advanced courses must have completed the basic courses (or the equivalent) and obtain permission from the professor of military science (PMS).

Two-Year Program

For college students entering as a sophomore, the two-year program consists of the advanced courses, preceded by a four-week summer ROTC leadership training course (LTC) at Ft. Knox, Kentucky. Inquiries into LTC should be directed to the Department of Military Science prior to completing the sophomore year. LTC is a paid internship and the academic equivalent to the MS1/MSII basic courses.

Prior service and enlisted soldiers who have completed basic training may be eligible to enroll in the advanced course without attending LTC or completion of the ROTC basic courses. Enlisted soldiers pursuing advanced placement must obtain permission from the PMS.

Scholarship Programs

College freshmen, sophomores, and juniors may be eligible for four-, three-, and two-year scholarships, regardless of academic major. Interested students must enroll in Army ROTC and meet eligibility requirements, including an army physical fitness test.

High school scholarship applicants may be eligible for four- and three-year college scholarships. High school students can apply during their junior year and before January 10 of their senior year.

All scholarship recipients receive tuition and fees, a \$1,200 book allowance, and a stipend of \$300–500 per month during the academic year. Students interested in scholarships should contact the enrollment and scholarship officer at armyrotc@colorado.edu, **303-492-3549** or **303-492-6495**.

Simultaneous Membership Program

College sophomore and juniors who want additional leadership training, may participate with an Army Reserve or Army National Guard unit as an officer trainee. Students participating in this program earn approximately \$240 in monthly drill pay, plus a monthly ROTC stipend of \$300–500. Additionally, SMP participants receive Army National Guard or reserve tuition benefits of up to \$4,500 per year. Enlisted and prior service students retain their authorized GI benefits.

Army ROTC Course Credit

ROTC is an elective credit in most departments. Individual academic advisors verify if ROTC classes count toward the student's degree.

Registration

Army ROTC classes begin with MLR prefix. Register for classes through the normal course registration process. For more information, contact the enrollment and scholarship officer at CU-Boulder at armyrotc@colorado.edu, **303-492-3459** or **303-492-6495**. See also the AROTC website at www.colorado.edu/arotc.

Naval Science

Naval science course work is offered in the fall and spring semesters only. All naval science students enroll in NAVR 1010, 2020, 4010, and 4020. Those desiring commissions in the U.S.

Navy enroll in NAVR 3020, 3030, 3040, and 4030 for upper-division work. Those desiring commissions in the U.S. Marine Corps enroll in NAVR 3101 and 4101 for upper-division work.

Scholarship Programs

NROTC offers two-, three-, and four-year scholarship programs, and two-year and four-year college (non-scholarship) programs. Navy scholarships may be earned while students are enrolled in the college program. Scholarship students receive tuition and fees, a \$375 book allowance per semester, and a \$250 per month subsistence allowance. This subsistence allowance gradually rises to \$400 by the student's senior year. College program students receive a \$350 per month subsistence allowance their junior year and \$400 per month subsistence allowance their senior year in the program.

Naval science (Navy option) students must complete one year of calculus, physics, and English, and one semester of American military history or national security policy, and a cultural course. Students should check with their naval science instructor to determine specific course offerings that fulfill the above requirements.

Degree Credits

The number of NROTC semester hours of credit that may count toward degree requirements is determined by the individual colleges. Students should therefore consider their college's policy when formulating their degree plan.

Commissioned Service

Opportunities for commissioned service are presently available in the unrestricted line (surface, subsurface, aviation, special warfare, and special operations) and staff corps (nursing) in the U.S. Navy. Opportunities in ground and aviation specialties are available in the U.S. Marine Corps. Students interested in other programs leading to commissions in either the U.S. Navy or U.S. Marine Corps are encouraged to contact the NROTC unit on campus. All commissioning programs require that the student be working toward, and receive, a college degree.

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Technology, Arts, and Media Program

The ever-expanding landscape of the networked age requires new and adaptable skill-sets, within both academic and commercial paradigms. In order to address this need, the Technology, Arts, and Media Program, based within the ATLAS Institute, offers two undergraduate programs: a minor in Technology, Arts, and Media (MTAM) and a smaller Certificate in Digital Media (CDM). The minor is intended for students who wish to pursue research and careers related to digital media, whereas the certificate is intended for students who are interested in the fundamentals of digital media production.

The course code for this program is ATLS.

Minor in Technology, Arts, and Media (MTAM)

The minor in Technology, Arts, and Media (MTAM) provides a broad multidisciplinary perspective that integrates technological skills with a critical, theoretical, and historical understanding of technology, media, and the arts. The MTAM curriculum includes creative production courses, as well as classes that impart foundational knowledge and critical perspectives on the role of technology in society. Students from a wide range of majors receive instruction in digital media production, design, art criticism, computer programming, information technology, data visualization, media and societal analysis, and project development.

Minor Goals

- to prepare the next generation of artists, designers, and media producers for the networked age
- to give students the necessary technical, theoretical, and historical backgrounds so they can contribute to the development of new functionalities and aesthetics for computer media
- to facilitate the exploration of the intersection of technology and other specific disciplines
- to produce active and critically aware participants and producers of technology

Minor Requirements

- A minimum of **21** credit hours:
 - ATLS 2000 The Meaning of Information Technology
 - ATLS 3010 Digital Media 1
 - ATLS 3020 Digital Media 2
 - ATLS 3030 Fundamentals of Digital Design
 - Critical thinking in technology elective*
 - Invention and practice elective*
 - ATLS 4010 Capstone
- Students must maintain a 2.00 GPA within all MTAM courses.
- Students must earn a minimum grade of *C* in all courses counted for the minor.
- Students may not take more than one elective course from a single department (this does not apply to ATLS courses).
- Course work used to satisfy MTAM requirements cannot be taken *pass/fail*.
- ATLS core courses cannot be substituted (ATLS 2000, ATLS 3010, ATLS 3020, ATLS 3030, ATLS 4010).
- A minimum of 15 credit hours must be taken on the Boulder campus.
- Failing to meet the minimum grade for any individual ATLS core course twice will result in automatic removal from the MTAM program.

**See tam.colorado.edu for a current listing of approved elective courses.*

Course Substitutions

- Course work not on the approved elective list (including course work from another University of Colorado campus, another institution, Study Abroad, or Semester at Sea) must be approved by the MTAM Faculty committee. Students must complete a Course Substitution Petition Request Form and attach supporting documentation (syllabus).
- Substitution requests will not be considered if the student has already satisfied the requirement with an approved elective course.

+ Certificate Program

University of Colorado Boulder

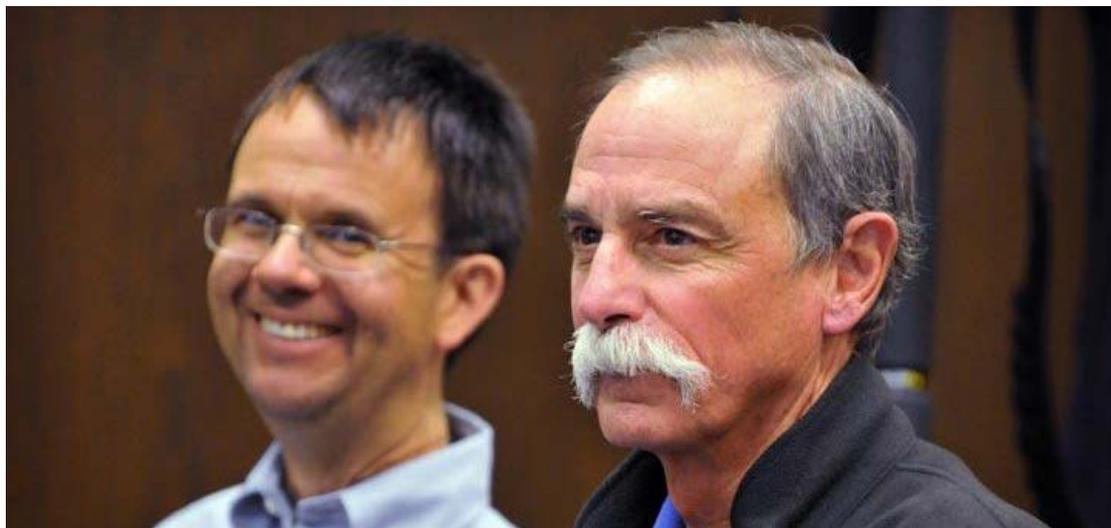
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College of Arts & Sciences

Steven R. Leigh, dean
 275 UCB • phone: 303-492-
 7294 • fax: 303-492-4944
 college



website: www.colorado.edu/artssciences

THE COLLEGE OF ARTS AND SCIENCES is the liberal arts college at CU-Boulder. Its mission is to provide an outstanding liberal arts education for its undergraduates, cutting-edge graduate education, and world-class research, scholarship, and creative work. In addition to gaining the knowledge and skills of their areas of study, students learn how new information is acquired, and they can participate in original research and creative work with individual faculty members.

The college offers a wide variety of fields of study, with nearly 50 undergraduate majors. The environment and advantages of a small liberal arts college are created through "academic neighborhoods" in which students can meet and interact with other students and faculty in small group settings. In addition, more than 60 percent of undergraduate classes are small, with 25 or fewer students.

As the liberal arts college of CU-Boulder, the College of Arts and Sciences has several goals in the education of its students:

- Educate students for careers and a productive life. Arts and sciences students gain the most current knowledge and skills in their major fields of study. In addition, they learn how to acquire new skills to contend with—and lead—the changes that will occur in the decades to come. Education for a productive life also requires that students learn how to analyze situations, solve problems, and speak and write effectively.
- Provide students with a well-rounded education. Arts and sciences students acquire a broad knowledge and an integrated understanding of art and music, great literary works, philosophy, history and politics, the social world, science, and technology. They learn how to critically evaluate and think about morals, ethics, and values. The core curriculum and breadth requirements give students a broad, liberal-arts education that develops the whole person, not just the specialist.
- Educate citizens who can think for themselves, understand the rapidly changing world, and make wise choices within a democratic system.
- Impart a love of learning so that students can continue to grow throughout life.
- Teach ways of thinking about and approaching new problems. For some students, this will enable them to further advance knowledge and scholarship in the academy. For all students, this is important for enriching their lives.
- Prepare students to help enrich the lives of others. Arts and sciences graduates become lifelong resources for their families, neighbors, friends, and co-workers.

The college also is dedicated to outstanding graduate education. Advanced degrees are offered by nearly every academic department in the college, and the PhD is offered in approximately 30 different disciplines. In addition, an increasing number of departments offer combined bachelor's/master's degrees that can be earned in five years. Graduate training focuses on teaching and

research careers as well as on professional careers in the public and private sector.

The strength of the College of Arts and Sciences comes from its outstanding faculty. In addition to being dedicated teachers, they are active scholars in disciplines throughout the arts and humanities, social and behavioral sciences, biological sciences, and physical and mathematical sciences. They are the recipients of numerous national awards and honors for their research, scholarship, and creative work. Faculty and staff of the College of Arts and Sciences join together to create an intellectual community of students and scholars to discover, critically examine, integrate, preserve, and transmit knowledge, wisdom, and values.

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Academic Excellence

Dean's List

Students in the College of Arts and Sciences who have completed at least 12 credit hours of CU-Boulder course work for a letter grade in any single semester with a term GPA of 3.75 or better are included on the dean's list and receive a notation on their transcript and a letter from the dean.

Graduation with Honors

The award of honors at graduation—cum laude, magna cum laude, or summa cum laude—is determined by the Honors Program of the college and is based on several criteria, including the quality of original scholarly work. Honors are not conferred on a graduate simply by virtue of high grades. Students pursuing multiple majors or multiple degrees must complete their honors program and defend their thesis by the published deadline for the term/year in which their first major or first degree is conferred. Students intending to pursue honors must register with the Honors Program by the deadlines published on the Honors Program website. Honors requirements must be complete prior to graduation. Students "walking" in May but graduating in August must complete honors requirements, including defending the thesis, by the Honors Program deadline for May graduation. Interested students should consult the Honors Program listing in this catalog or contact the Honors Program in Norlin Library.

Graduation with Distinction

Students will graduate "With Distinction" if they have at least 30 credit hours completed at the University of Colorado Boulder and have a grade point average of 3.75 or higher for all course work completed at the University of Colorado. The average includes all grades except *P*.

Phi Beta Kappa

Phi Beta Kappa is the nation's oldest and most prestigious honor society. The CU-Boulder chapter was established in 1904. Upper-division students whose undergraduate academic records fulfill certain requirements are eligible for election to membership in recognition of outstanding scholastic achievement in the liberal arts and sciences. Students are notified by mail of their nomination; students do not apply for Phi Beta Kappa membership.

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Residential Academic Programs (RAPs)

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- [SSI: Sustainability and Social Innovation Residential Academic Program](#)

Baker Residential Academic Program

The Baker Hall Residential Academic Program (RAP) is designed primarily for freshman and sophomore students who are interested in the natural sciences and environmental studies. The program provides courses that satisfy various core curriculum requirements in the College of Arts and Sciences and in majors such as ecology and evolutionary biology, environmental studies, integrative physiology, geography, geology, and chemistry. Courses are typically limited to 25 students and are taught in classrooms located in Baker Hall. Baker RAP offers access to academic advising, career counseling, student internships, guest speakers, field trips, and close faculty contact. The combination of small classes, a group of students who take many of the same classes together, and frequent field trips and special lectures creates a small-college atmosphere while offering the advantages of studying at a major research university.

Baker RAP offers courses in anthropology, biology, chemistry, economics, environmental studies, expository writing, geography, geology, history, mathematics, philosophy, and political science. The curriculum is designed to maximize the opportunities for students to satisfy core curriculum requirements in the College of Arts and Sciences. Upper-division courses are presented in biology and environmental studies. Upper-division credit is available through independent study and research. Students usually take one or two of the above courses each semester. Baker RAP also reserves seats for its students in certain high-demand courses taught outside the program, including introductory biology and chemistry laboratories.

The Baker RAP curriculum is augmented through experiential learning outside of the classroom. Undergraduate research plays an important role in these experiences. Interested students are encouraged to participate in research projects as early as their first year. Baker RAP instructors work closely with the Undergraduate Research Opportunities Program (UROP) to facilitate matching Baker RAP students with faculty members with similar research interests.

Baker RAP cocurricular activities offer social and educational opportunities for students in the program. These activities include a kick-off picnic at the beginning of the school year, local hikes, mountain climbing, backpacking, a cave tour, a day of cross-country skiing, and a spring service-oriented activity emphasizing environmental conservation. Guest lecturers are invited to speak about scientific or environmental themes.

There is a fee for participation in Baker RAP in addition to regular tuition, fees, and room and board. Students eligible for financial aid may request that their budget be adjusted to include the program fee. Their eligibility for aid will then be increased by an amount equal to the Baker RAP fee. Students interested in the program should visit bakerrap.colorado.edu. Inquiries to the program can be by e-mail, bakerrap@colorado.edu; phone, **303-492-3188**; or mail, Baker Hall Residential Academic Program, University of Colorado Boulder, 176 UCB, Boulder, CO 80309-0176.

Communication and Society Residential Academic Program

Buckingham Hall's Communication and Society Residential Academic Program (COMM RAP) is a living-learning environment for 200 students designed around the theme of Communication and Society. It offers students an opportunity to engage with faculty and other students in a small college atmosphere within a major research university. Students explore the complex social problems and challenges of communication in contemporary society in seminar-sized courses. They also have opportunities to participate in co-curricular activities that stress civic engagement. The many opportunities for outreach and collaboration with the Boulder community provide an excellent venue for learning by doing.

A unique feature of the program is its integration of courses from its three supporting areas, the Department of Communication, Journalism and Mass Communication, and the Program for Writing

and Rhetoric. These courses emphasize the role of participation, deliberation, and collaboration in shaping and resolving public problems and problems in daily life. Its offerings also include opportunities for upper-division courses on topics germane to communication and society.

In addition to communication offerings, the curriculum includes courses that satisfy the writing and core requirements in Arts and Sciences. Across the year, guest lectures and seminars provide opportunities to interact on civic engagement and societal participation with leading experts on the CU faculty and distinguished visitors to the university.

The COMM RAP is open to students with an interest in communication and society, regardless of major. A fee is charged for participation in the program. For more information, call **303-492-1996**.

Farrand Residential Academic Program

Farrand's small seminar courses in the liberal arts are taught by award-winning faculty especially selected to help create a close intellectual and social community. As the Humanities and Cultural Studies Residential Academic Program, Farrand focuses on the study of the humanities within the larger frame of culture and society. Farrand also offers high-demand courses from all areas of the curriculum. These include service-learning classes, which provide a deeper cultural understanding by applying classroom learning to service to the community.

Each semester, every Farrand student takes a Farrand course that provides a shared academic experience. For many students, this course will be a humanities course, such as Greek Mythology, Introduction to Ethics, or the interdisciplinary Introduction to the Humanities, reflecting a commitment to the humanities that is central to Farrand's identity.

Because helping others contributes to the learning experience as well as to the whole community, Farrand offers several service-learning classes each semester. Service learning gives students the chance to apply what they study in their classes to real-life situations, such as a homeless shelter, a humane society, or a tutoring program. These classes include Gandhian Philosophy; Nutrition, Health, and Performance; and Global Women Writers. The Farrand curriculum also offers a wide range of popular core curriculum classes taught by faculty known for their teaching skills. Ethics, Calculus, and Introduction to American Government are just a few examples.

Farrand's many cocurricular opportunities include a wide variety of events and performances, active and well-supported student governance (Farrand Community Council), and group projects benefiting the community and the environment.

The program is designed primarily for students in the College of Arts and Sciences. Interested students in other colleges should contact the Farrand program for special admission procedures. It is administered by academic directors selected from the faculty and a hall director experienced in the operation of a large residence hall. There is a charge for the program in addition to regular tuition, fees, and room and board.

Inquiries concerning any aspect of the academic program may be directed to the Farrand Academic Program, University of Colorado Boulder, 180 UCB, Boulder, CO 80309-0180, **303-492-8848**.

Global Studies Residential Academic Program

The Global Studies Residential Academic Program (G-RAP) promotes the recognition of global interdependence, encourages the study of foreign languages and international affairs, and emphasizes the value of international education. This year-long program, housed in the newly renovated Smith Hall in the Kittredge Complex, provides 200 first- and second-year students with the foundational tools needed to serve as effective global citizens.

G-RAP combines multidisciplinary, internationally focused courses with co-curricular activities, service learning opportunities, and short-term study abroad programs. Students select from a diverse selection of course offerings each semester, including courses in anthropology, economics, philosophy, religious / studies, and international affairs. The majority of the courses fulfill requirements from the arts and sciences core curriculum. Classes range in size from 15 to 18 students, and the instructors hold office hours in Smith to ensure enhanced accessibility for G-RAP students.

By participating in G-RAP, students gain access to staff and faculty with extensive and unique international experience and interests, as well as access to each other as a group of like-minded, globally conscious individuals. Additionally, the program offers participants access to student fellows, a group of outstanding former G-RAP students who hold office hours in the dorm each week to assist with course work, study sessions, paper writing, or language tutoring.

The Global Studies RAP is open to all students seeking to add an international component to their academic program, regardless of major. G-RAP is proud to be a leader in the effort to globalize the campus.

A fee is charged for participation in G-RAP. Interested students should visit globalstudiesrap.colorado.edu to read more, view current course offerings, and browse co-curricular opportunities. For additional information, call **303-735-3189** or e-mail GRAP@colorado.edu.

Health Professions Residential Academic Program

The Health Professions Residential Academic Program (HPRAP) will proudly take residence in the newly renovated Kittredge West Hall in fall 2013, accommodating approximately 225 students. Joining our living/learning community is an excellent choice for students interested in exploring majors and careers in healthcare. These career paths may include, but are not limited to: chiropractic medicine, dentistry, naturopathic medicine, nursing, occupational therapist, optometry, osteopathic, medical doctor, pharmacy, physical therapy, physician's assistant, podiatry, public health, veterinary medicine. Students of all colleges and schools are welcome, although the curriculum may not lend itself to some engineering majors.

HPRAP provides highly desirable introductory courses taught by expert teachers in a supportive atmosphere where each individual is valued. HPRAP students will take at least one course offered by the program each semester. Courses are taught onsite within the hall, with an average of only 20 students per class. Courses range from basic science to courses on bioethics, global health policy, writing, and the social sciences. As part of the HPRAP experience, faculty provide co-curricular activities to enhance the learning environment and integrate the health professions theme through experiences such as field trips and guest speakers.

The Health Professions RAP faculty and staff work at providing meaningful experiences that will prove valuable as students move toward their academic and career aspirations. Students with clinical and research experience, community service, and leadership roles will be very desirable to future employers and graduate school admissions committees. Through collaboration with the Pre-Health Advising Office and programming provided by the Health Professions RAP, students will be presented with opportunities in these cornerstone areas.

The Health Professions RAP will make the first year at CU a rewarding adventure and will serve as a gateway to opportunities on campus and beyond.

For more information about the program fee, application process, and course offerings, visit hrap.colorado.edu, or contact hrap@colorado.edu or **303.492.4537**.

Honors Residential Academic Program

The Honors Residential Academic Program (Honors RAP) is the residential component of the Honors Program of the College of Arts and Sciences. It is open to approximately 300 honors-qualified first-year and continuing honors-qualified students. Participants live in Smith Hall. Students of other colleges are welcome to participate although the curriculum may not lend itself as well to their requirements.

The Honors RAP promotes and sustains academic excellence within a lively community setting. Students take one onsite 3-hour seminar-style course each semester. Each semester the program offers a variety of honors courses, and the great majority of these courses satisfy arts and sciences core curriculum requirements. Each seminar is taught by an experienced faculty member, emphasizes discussion and writing, and ordinarily enrolls about 15 students.

Beyond the classroom and a variety of co-curricular activities that enhance the learning experience, Honors RAP fosters a variety of student-led activities, including evening social events each week and a monthly lecture series that brings students into contact with leading teachers and researchers from the university community.

Members of the Honors RAP draw on a rich variety of academic, advising, and informational resources. Responsibilities for community building, fostering a culture of academic success, and for the planning and implementation of programming consistent with our Honors mission are shared among the student leaders, faculty, and staff. The associate director who supervises Honors RAP's daily functioning maintains an office in Smith Hall for academic advising and acts as liaison to the rest of campus. There is a faculty in residence for Honors RAP who lives in a faculty apartment in Smith Hall east wing.

Eligibility: Beginning each December, the Honors Program of the College of Arts and Sciences invites approximately the upper 10 percent of all admitted Arts and Sciences students to participate in honors courses during their first year on campus. These invitations are issued on the basis of high school grade averages and scores on the Scholastic Aptitude Test (SAT) or American College Test (ACT). All students receiving an honors invitation are eligible to become members of the Honors RAP on a first-come, first served basis, determined by date of receipt of the online housing application. Students who wish to participate in Honors RAP beyond the first year must maintain a University of Colorado GPA of 3.30 or above. As with participants in all other residential academic programs, Honors RAP members pay a participation fee in addition to the standard charges for tuition, fees, and room and board. Students eligible for financial aid may request their budget be adjusted to include the program fee.

For more information about the program, program fee, application process, course offerings, and more, visit honorsrap.colorado.edu or contact hrap@colorado.edu or **303-492-3695**.

Leadership Residential Academic Program

This Leadership RAP is located at Kittredge Central and is dedicated to developing community, civic, and global leaders for a culturally diverse and democratic society. When a student enrolls in the Leadership RAP they select one of two academic programs.

The Ethnic Living and Learning Community (ELLC) Leadership Studies Program provides students with a multicultural living and learning experience while studying leadership from a cultural and multidisciplinary perspective.

The Chancellor's Leadership Studies Program (CLSP) offers leadership development and an understanding of how institutions and communities solve problems. Students learn different leadership styles needed to work effectively in those settings.

Students in both of these programs take leadership courses offered each semester that meet core requirements and may be applied toward graduation as well as toward a Certificate in the Study and Practice of Leadership. Students from all schools and colleges on the Boulder campus are eligible to participate.

There is a program participation fee of \$850. Scholarships are available to cover the cost of the fee for those with financial need. Contact the Leadership RAP, University of Colorado Boulder, 406 UCB, Boulder, CO 80309-0406, phone **303-735-1987**, e-mail leadership@colorado.edu, or visit LeadershipRAP.colorado.edu.

For additional information on this program, see the [Other Academic Programs](#) section.

Libby Residential Academic Program

The Libby Arts Residential Academic Program (Libby RAP or LRAP) fosters individual creativity and personal expression to prepare students for success in a wide variety of fields. The curriculum is designed for students who consider study in the arts to be a valuable complement to a major in the humanities, social sciences, natural sciences, business, or engineering, or who have an interest in the arts as a major. Prior art experience is not required for any Libby RAP class.

Libby RAP classes satisfy either core, major, or elective requirements and are taught in Libby Hall by faculty with demonstrated excellence in teaching. Class sizes are limited to approximately 18 students. Courses are offered in dance, acting, drawing, painting, writing, film criticism and theory, digital art, art history, music history, and media studies. A range of popular core curriculum classes are also offered each year in disciplines such as economics, math, and nutrition. Libby RAP classes require a healthy curiosity and the willingness to be creative.

With students taking several classes together and living in the same residence hall, LRAP fosters a small community within the larger university setting.

Libby RAP also exposes students to the diversity of the arts through co-curricular activities, experiential learning opportunities, and community events. Students are offered numerous chances to explore the breadth of the performing and visual arts, to investigate creativity and how it is applied outside the arts, and to expand their social and cultural awareness. Other activities build a sense of community within Libby Hall and address social responsibility in the community at large. Activities regularly occur on and off campus, in the Denver metro area, and even include travel to the Telluride Film Festival and to New York City.

Students enrolling in the program are required to take at least one course in the hall each semester. The LRAP faculty director and professional staff are located in Libby Hall and provide academic assistance to students. There is an annual non-refundable fee for participation and there are a limited number of scholarships available. Students who are eligible for financial aid may request that their budget be adjusted to include the LRAP program fee.

To learn more, visit libbyrap.colorado.edu, or contact libbyrap@colorado.edu or **303-735-4211**.

Sewall Residential Academic Program

The Sewall Residential Academic Program (SRAP) is a program for first-year students enrolled in the College of Arts and Sciences who have an interest in the study of history and culture. Citizenship in the 21st century requires the ability to engage complex connections between the present and past, between local places and our global society, and between the arts and sciences. SRAP combines classes ranging from history and biology to economics and English, with co-curricular activities (such as lectures, films, and field trips) and local community outreach to help students recognize and think about these connections.

Limited to 330 students, SRAP provides the opportunity to enjoy the advantages of a small liberal arts college within the broader context of a large research university. The program offers a selection of small seminar-style classes (limited to approximately 18 students) that meet in the Sewall residence hall. Classes encourage active student participation and emphasize analytical thought through intensive reading, discussion, and writing. Most SRAP courses also fulfill College of Arts and Sciences core requirements.

Each semester all SRAP students must take a 3-credit course at Sewall. All students are further required to take SEWL 2020 either fall or spring semester. In addition, students have the opportunity to take the lower-division writing course (WRTG 1150) at Sewall in either fall or spring semester.

SRAP facilitates a successful transition from high school to the university. Sewall courses are taught by faculty with a demonstrated excellence in teaching and a commitment to working closely with first-year students. Faculty members have offices conveniently located in Sewall Hall, which helps foster communication between students and faculty. Participants in the Sewall program are also fully involved in regular campus life, take the majority of their classes with the rest of the university, and are encouraged to join in all university activities.

The SRAP director, associate director, and program assistant are readily available to help students with planning schedules, making sense of the rules of the University and the College of Arts and Sciences, and choosing majors. They can refer students to other university resources for specialized counseling when necessary, and the housing department office offers free tutoring in many

subject areas.

Interested first- and second-year students who are admitted into the College of Arts and Sciences should indicate Sewall Hall as their first choice on the housing application form and return it to the Housing Reservation Center as early as possible. Students are admitted on a first-come, first-served basis, determined by date of receipt of the housing application form. There is an extra charge for participating in the program in addition to regular tuition, fees, and room and board. Some scholarships are available; please contact the academic program office for details.

Students who have questions about the program should address them to the Director, Sewall Residential Academic Program, University of Colorado Boulder, 353 UCB, Boulder, CO 80309-0353; visit the program online at rap.colorado.edu; or call the SRAP office at **303-492-6004**.

SSI: Sustainability and Social Innovation Residential Academic Program

The Sustainability and Social Innovation (SSI) RAP is an experiential skills-based program for students concerned about sustainability and innovation issues who want to participate in developing solutions while earning credits toward their degree in any college on campus. Students in the Sustainability and Social Innovation RAP are housed in the only LEED Platinum residence hall on campus, Williams Village North. The program is uniquely multidisciplinary, seeking a critical engagement of students interested in identifying sustainable solutions to diverse global challenges including resource depletion and conservation, climate change, poverty, environmental protection, and economic instability. Our teaching faculty includes professors in architecture, engineering, political science, writing, biology, psychology, anthropology, business, and sociology. Courses offered in the residence hall for RAP students vary each term but always include core curriculum courses from the College of Arts and Sciences, as well as other campus offerings.

Sustainability and Social Innovation courses challenge the status quo and emphasize collaborative problem-solving and social innovation through design, debate, planning, project development, writing, and creative enterprise. In small classes of usually no more than 22 students, and through RAP activities and events (using a state-of-the-art kitchen, computer lab, facilities and grounds at Williams Village, visiting speakers, field trips) students develop a strong knowledge base, entrepreneurial savvy, communications skills, technology literacy, teamwork skills, and compassionate understanding. SSI is one of the few RAPs with its own faculty-in-residence and with resident graduate student teaching resident assistants (TRAs) who live in the building and assist with RAP classes. As a result, mentoring, academic staff and informal support are close at hand for all RAP students. SSI students work closely with their peers in the Sustainable by Design (SbD) RAP, also located at Williams Village North.

Enrollment in the program includes an additional fee. Please contact wrraps@colorado.edu or call **303-735-1330**.

The Sustainability and Social Innovation RAP provides students from across all academic disciplines study of a variety of practices that foster social innovation and sustainability.

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Programs of Study

Degrees

| Programs | Degree Type |
|--|------------------|
| Anthropology | BA, IBA, MA, PhD |
| Applied Mathematics | BS, MS, PhD |
| Art and Art History | BA, BFA, MA, MFA |
| Asian Languages and Civilizations | BA, MA, PhD |
| Asian Studies | BA |
| Astrophysical and Planetary Sciences | BA, IBA, MS, PhD |
| Atmospheric and Oceanic Sciences | MS, PhD |
| Chemical Physics | PhD |
| Chemistry and Biochemistry | BA, IBA, MS, PhD |
| Classics | BA, MA, PhD |
| Cognitive Science Studies | PhD |
| Communication | BA, MA, PhD |
| Comparative Literature | MA, PhD |
| Computer Science | BA |
| Distributed Studies Program | BA |
| Ecology and Evolutionary Biology | BA, IBA, MA, PhD |
| Economics | BA, MA, PhD |
| English | BA, MA, MFA, PhD |
| Environmental Studies | BA, IBA, MS, PhD |
| Ethnic Studies | BA |
| Film Studies | BA, BFA |
| French and Italian | BA, MA, PhD |

| | |
|--|-----------------------|
| Geography | BA, IBA, MA, PhD |
| Geological Sciences | BA, IBA, MS, PhD |
| Germanic and Slavic Languages and Literatures | BA, MA, PhD |
| History | BA, MA, PhD |
| Humanities | BA |
| Integrative Physiology | BA, IBA, MS, PhD |
| International Affairs | BA |
| Jewish Studies | BA |
| Linguistics | BA, MA, PhD |
| Mathematics | BA, MA, PhD |
| Molecular, Cellular, and Developmental Biology | BA, IBA, MA, PhD |
| Museum and Field Studies | MS |
| Philosophy | BA, MA, PhD |
| Physics | BA, IBA, MS, PhD |
| Political Science | BA, MA, PhD |
| Psychology and Neuroscience | BA, IBA, MA, PhD |
| Religious Studies | BA, MA |
| Sociology | BA, MA, PhD |
| Spanish and Portuguese | BA, MA, PhD |
| Speech, Language, and Hearing Sciences | AuD, BA, IBA, MA, PhD |
| Theatre and Dance | BA, BFA, MA, MFA, PhD |
| Women and Gender Studies | BA |

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Faculty: Arts & Sciences

- [Anthropology](#)
- [Applied Mathematics](#)
- [Art and Art History](#)
- [Asian Languages and Civilizations](#)
- [Asian Studies](#)
- [Astrophysical and Planetary Sciences](#)
- [Atmospheric and Oceanic Sciences](#)
- [Baker RAP](#)
- [Chemistry and Biochemistry](#)
- [Classics](#)
- [Communication](#)
- [Communication and Society RAP](#)
- [Comparative Literature](#)
- [Ecology and Evolutionary Biology](#)
- [Economics](#)
- [English](#)
- [Environmental Studies](#)
- [Ethnic Studies](#)
- [Farrand RAP](#)
- [Film Studies](#)
- [French and Italian](#)
- [Geography](#)
- [Geological Sciences](#)
- [Germanic and Slavic Languages and Literatures](#)
- [Global RAP](#)
- [History](#)
- [Honors](#)
- [Honors RAP](#)
- [Humanities](#)
- [Integrative Physiology](#)
- [International Affairs](#)
- [INVST Community](#)
- [Jewish Studies](#)
- [Libby RAP](#)
- [Linguistics](#)

- Mathematics
- Miramontes Arts and Sciences Program (MASP)
- Molecular, Cellular, and Developmental Biology
- Museum and Field Studies
- Philosophy
- Physics
- Political Science
- Psychology and Neuroscience
- Religious Studies
- Sewall RAP
- Sociology
- Social Entrepreneurship for Equitable Development and Sustainability (SEEDS) RAP
- Spanish and Portuguese
- Speech, Language, and Hearing Sciences
- Theater and Dance
- Western American Studies
- Women and Gender Studies
- Writing and Rhetoric, Program for

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Leeds School of Business



David L. Ikenberry, dean
419 UCB phone: 303-492-1809
Fax: 303-492-7676
School website: leeds.colorado.edu

THE NEW INNOVATION ECONOMY requires—and rewards—richer knowledge, sharper skills and a global mindset. Ultimately the edge belongs to those who bring inspiration and purpose to their work.

Within this climate, the **Leeds School of Business** embarks on an innovation agenda designed to leverage our unique assets: the intellectual capital of Leeds faculty, our focus on the 'whole student' experience, our strong network of alumni and industry partners, and our stunning and dynamic location.

Leeds holds accreditation by the Association to Advance Collegiate Schools of Business (AACSB-International). Leeds awards four types of degrees: the bachelors of science (BS), the master of science (MS), the master of business administration (MBA), and the doctor of philosophy (PhD). Students can specialize in accounting, finance, management and entrepreneurship, and marketing.

World-class faculty provide the foundation for breakthrough thinking—creating knowledge from research, disseminating knowledge through teaching, and applying knowledge in collaboration with the business community. Faculty discoveries are frequently published in prestigious academic journals, which enhance the school's reputation for inspiring innovation.

From orientation to graduations, Leeds faculty and staff guide students to discover and optimize their potential. Through an array of targeted services, students create an individualized journey that maximizes the impact of their experience. Ethics and social responsibility are hallmarks of a Leeds education, and the school's commitment to professional development is unrivalled.

Leeds alumni and industry partners stand united to offer a meaningful level of engagement with students, faculty, and other key stakeholders that is uncommon among business schools. Alumni provide the support and resources that ensure graduates are poised for maximum impact. Corporate partners infuse relevance to Leeds' curriculum innovation, supporting new programs and providing the school access to professional talent.

Beyond its breathtaking vistas, Leeds joins the University of Colorado and the Boulder community to provide inspiration that generates extraordinary opportunities for students. Cross-campus

collaborations with fields like engineering and science link Leeds faculty and students with more resources to put innovation into action. And Boulder, the nation's hotbed for thriving start-up companies, contributes intellectual energy through a high concentration of advanced technology industries.

Together, these assets make Leeds uniquely qualified to deliver on our mission of educating principled, innovative leaders who drive value.

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Facilities & Research Activities

On This Page:

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- [Professional Mentorship Program](#)
- [Leeds School of Business Student Government](#)
- [Academic Centers](#)
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- [Graduation Recognition Ceremony](#)
- [Career Opportunities](#)
- [Student Organizations](#)

The Leeds School of Business houses resources for the specific needs of business students. The facilities include: the Burrige Center for Securities Analysis and Valuation, the Business Research Division, Career Connections, the Center for Education on Social Responsibility, the Center for Research on Consumer Financial Decision Making, Eurest Dining, the MBA Business Center, the Office of Diversity Affairs, the Real Estate Center, the Robert H. and Beverly A. Deming Center for Entrepreneurship, smart classrooms, student lounges, Trep Café, Undergraduate Student Services, William M. White Business Library and Information Commons, and other amenities.

The William M. White Business Library (ucblibraries.colorado.edu/business) and Information Commons provides students with a wealth of information pertaining to the business world. Students have access to the business and other libraries via the university libraries online catalog. Many databases are accessible through the wireless network and off campus. These databases, both CD- and web-based, contain a myriad of full-text magazines and journals; business periodical indexes; corporate annual, 10-K, and proxy reports of all the public companies in the United States; short profiles of both American and international companies; demographic and business statistics; industry and market information; and investment reports written by Wall Street analysts. Over 50 computers provide access to the databases and the Internet, and technology-outfitted team rooms are available for group study. Knowledgeable librarians are always available to help navigate the search for information. The Information Commons is open 24 hours, seven days per week and contains 30 of the 50 computers with a full suite of software. These are accessible to students, faculty, and staff of the university. In addition, Leeds has 25 technology equipped team rooms. These rooms support group study and project work. They are available for reservation at leeds.colorado.edu/teamrooms.

The White Business Library is part of the University of Colorado library system, which includes more than two million volumes, more than five million microforms, and more than 24,000 periodicals and serials. The system is also a full depository for United States government, international, and state documents.

All classrooms in the Leeds School of Business are equipped up to campus "smart" classroom technology standards. Technologies in a typical Leeds classroom include: a desktop computer loaded with Microsoft Office Suite applications, video projection system, ceiling speakers for audio, DVD/VCR, iClicker base station, campus cable, and both wired and wireless Internet connections. All classrooms have the flexibility to support a personal laptop with connectivity in place to integrate with the video projection and sound system.

Business Research Division

Established in 1915, the Business Research Division is one of the earliest organized state service-oriented bureaus in the country.

The Business Research Division conducts business, economic, and market research that contributes to the efficient use of Colorado's resources and increases interest in and awareness of the Leeds School of Business. It also is the umbrella organization for the Rocky Mountain Trade Adjustment Assistance Center (RMTAAC) and the Colorado Association of Manufacturing and Technology (CAMT). Through its annual Colorado Business Economic Outlook Forum, held in December, the division has established a base of knowledge that adds value to its work in other areas. In addition to providing businesses, government and nonprofits with information to help them make better-informed business and policy decisions, the division specializes in economic and fiscal analysis, market research, and custom research projects. It also prepares a Colorado leading economic indicator series, the *Leeds Business Confidence Index*. Research results are distributed through presentations and reports; a quarterly newsletter, the *Colorado Business Review*; and the division's website.

Funding for center activities comes from the Leeds School of Business, the university, state agencies, the federal government, state and local business firms, and from the sale of research products and services.

RMTAAC is one of 11 centers across the nation funded by the U.S. Department of Commerce to manage the Trade Adjustment Act for Firms (TAAF) Program, which helps import-impacted U.S.

firms develop and implement business recovery strategies to strengthen their competitiveness in the global marketplace. The TAAF Program is a cost-sharing federal grant program that pays a portion of professional consultant expenses or industry-specific expert services for projects that improve a firm's competitiveness, thereby increasing sales and creating U.S. jobs. Benefits of the program include up to \$75,000 in grant funds and 50/50 cost sharing for strategic projects.

CAMT is a statewide manufacturing assistance center dedicated to increasing the competitiveness of Colorado manufacturers. The center's manufacturing experts and industry resource network provide expertise in results-driven methodologies, best practices, and innovative technologies designed to increase profitability. As a public/private partnership, industry resources are brought together to offer comprehensive programs and services, including company assessments, customized training and workshops, and hands-on facilitation and implementation.

Academic Centers

In addition to the Business Research Division, the school has five centers linking academic programs and the business community—the endowed Robert H. and Beverly A. Deming Center for Entrepreneurship, the Center for Real Estate, the Burrige Center for Securities and Valuation, the Center for Education on Social Responsibility (CESR), and the Center for Business Integration.

The Robert H. and Beverly A. Deming Center for Entrepreneurship

As part of the Leeds School of Business, the Deming Center for Entrepreneurship prepares graduates to embrace key global challenges by equipping them to think like entrepreneurs, act as social innovators and deliver as successful business leaders.

Cutting-edge Curriculum. Our progressive curriculum and interdisciplinary programs include:

- courses in entrepreneurial finance, marketing, and business planning
- interdisciplinary programs in engineering, business, law, and environmental studies
- undergraduate Certificate of Excellence in Entrepreneurial Studies
- MBA concentration in entrepreneurship

The Deming Center supports the entrepreneurial curriculum and advances the Leeds School's leadership agenda through our collaborative initiatives across campus and in the business community in three key areas:

- **Creativity.** The mark of an entrepreneur is the innovation, the creativity, the game-changing nature of his or her work—whether it manifests inside an existing organization or in a newly created one. Our entrepreneurship students are challenged to turn accepted thinking on its head—in the classroom, in real-world industry projects, and by the business innovators who serve as student mentors and advisors. The center helps connect students with projects, advisors, and internships that challenge them to use their new skills creatively.
- **Sustainability.** One of the leading areas for innovation and entrepreneurial opportunity is in the emerging field of sustainable business products and practices. The center helps students connect in key industry sectors such as cleantech, bioscience, and organics that are well-represented in the region and serve national and international markets.
- **Access.** Boulder is consistently named one of the best places in the country to launch a startup. The center connects students to industry leaders via the Deming Network—an active group of world-class entrepreneurs and innovators who are accessible and hands-on. CU-Boulder is also a top research university. Across campus, the Deming Center helps students access opportunities in technology transfer and the engineering, law, biofrontiers, and environmental science programs.

Innovation, sustainability, and a high degree of access to relevant businesses are all integral aspects of 21st century entrepreneurship education. The Deming Center helps students apply their classroom learning to design creative solutions for cutting-edge businesses.

Real Estate Center

The Real Estate Center, founded in 1995, is supported by an industry council with the goal of advancing academic excellence in real estate education and scholarship. The center oversees the school's real estate teaching programs and advises the faculty in designing an integrated curriculum at both the graduate and undergraduate levels. Course work is drawn from the law school, the colleges of architecture and engineering, construction management, and others.

The center creates real-world experiences for students by providing project course work and being a resource for securing internships, mentors, and jobs. It also provides support for faculty teaching and research activities in real estate and, through the Real Estate Foundation, assists the university with its real estate portfolio.

Burrige Center for Securities Analysis and Valuation

The Burrige Center for Securities Analysis and Valuation is dedicated to encouraging and supporting the creation and dissemination of new knowledge about the world financial markets with an emphasis on the U.S. financial markets by:

- facilitating the exchange of ideas and knowledge between professional investment managers, finance scholars, policy makers, and the investing public;
- identifying critical research issues in the theory and practice of security analysis and valuation; and

- encouraging and supporting rigorous qualitative and quantitative research on topics relevant and useful to money managers, valuation experts, and finance academics.

Center for Education on Social Responsibility (CESR)

Ethics are discovered, not taught. Even routine decisions can have tremendous and often unseen potential to do harm or good—to colleagues, society, even the whole planet. Often, the most consequential decisions and actions seem routine at the time they're made—just another day at the office.

That's why CESR has redefined ethics and social responsibility education. They make it personal. They don't simply offer a class to teach rules handed down from philosophers or case studies about CEOs who lost their way.

CESR delivers an ongoing values development and self-discovery experience. It's infused in all subject areas. It's internalized by students through an ongoing process of action learning and unconventional classroom techniques. This applied approach is built into core curricula throughout the business school, highly unusual in academia.

Self-discovered values are more resilient than those that come from books. Once students discover their values, CESR illustrates how to protect and apply them. That requires critical thinking, every day. It requires constantly asking the right questions—stepping out of routine actions to anticipate consequences for colleagues, customers, organizations and society, and to create opportunities to do good.

Asking those questions is a constantly engaged risk management skill that's highly valuable to business. Equally important, it's a constantly-engaged mechanism for setting sights higher than compliance. And that often spurs creativity and innovation that creates social value as well as competitive advantage and financial returns for business.

CESR's goal is to help students become outstanding business leaders of tomorrow by preparing them to meet the ethical challenges posed by a highly competitive, globally-connected business world. Accordingly, CESR oversees the infusion of values and social responsibility discussions throughout the undergraduate and graduate curricula at the Leeds School of Business. As part of the central mission at Leeds, CESR creates pedagogies that are national models and plays a leadership role carrying out the school's commitment to developing leaders of conscience. Although CESR's primary focus is on excellence in curriculum development and delivery, the center also undertakes a broad spectrum of initiatives including a certificate program, student organizations, conferences, and other extracurricular offerings. CESR also provides funding and support for faculty research.

Courses. CESR is directly responsible for course development, staffing, and coordination of the required courses: Introduction to Business (freshman level) and Business Applications of Social Responsibility (junior level). CESR offers leading edge electives such as CESR 4000 Leadership Challenges: Exercises in Moral Courage, CESR 4005 Business Solutions for the Developing World: Learning through Service and CESR/ACCT 4827 Integrated Reporting for Socially Responsible Strategies.

Certificate and Portfolio. Undergraduates wishing to focus on CESR-related topics may earn the Certificate in Socially Responsible Enterprise (SRE). At the MBA level, CESR is responsible for the required Socially Responsible Enterprise course, and electives such as MBAX 6845 Social Entrepreneurship in Emerging Markets and MBAX 6825 Topics in Sustainable Business, two of the four options for MBAs to acquire the sustainability portfolio.

CESR Co-Curricular Activities:

- **CESR Stampede at Leeds: A Week of Driving Values in Business.** This weeklong event showcases the values-driven and innovative curriculum developed by the CESR that is shaping tomorrow's business leaders. Through class visits, expert panels and lectures, student competitions and showcases, attendees will explore their own values and network with like-minded professionals about applying positive values in a business setting. Stampede Week also includes the fourth annual Conscious Capitalism Conference, a CESR flagship event.
- **Conscious Capitalism Conference.** An annual conference hosted by CESR featuring innovative executives and entrepreneurs who have used the traditional tools of capitalism to serve social needs.
- **Student Center for Social Entrepreneurship (SCSE).** CESR provides faculty sponsorship for SCSE, the student branch of Social Entrepreneurship for Equitable Development (SEED@CU), an interdisciplinary, inter-generational campus group that is involved in researching, teaching, and generating student involvement in the areas of social entrepreneurship and sustainable community development.
- **Net Impact Club.** CESR is home to a graduate chapter of Net Impact, an international non-profit organization whose mission is to use the power of business to create a more socially and environmentally sustainable world.
- **New Venture Challenge Social Impact Track.** CESR developed and is home to the social impact track of the **CU New Venture Challenge**, a campus-wide initiative connecting students and faculty with teammates in a broad range of disciplines and with mentors from the business community. The goal is to provide knowledge and experience making entrepreneurship accessible to anyone on the CU-Boulder campus with the enthusiasm and creativity required to start a new business.

Career Opportunities

Leeds School of Business graduates are prepared for positions in the following fields:

- Accounting—public, private, nonprofit, and governmental
- Banking and other financial institutions
- Consulting
- Corporate financial management
- Entrepreneurship and small business management
- Financial analysis
- Human resources management
- Information systems
- International business
- Investment management
- Management consulting and organization management
- Marketing and sales management
- Nonprofit management
- Operations management
- Real estate
- Retailing
- Taxation
- Technology management
- Transportation
- Venture capital

Other graduates hold positions in fields as diverse as business journalism, public relations, city planning, chamber of commerce and trade association management, college administration, and government. The entrepreneurial area of application prepares students to start their own business ventures to take positions in emerging growth companies and the venture capital industry.

Professional Mentorship Program

The Professional Mentorship Program (PMP) is a unique program that offers one-on-one professional mentoring to current undergraduate students. The program's mission is to enhance business education at the Leeds School by offering hands-on learning, professional skills development, leadership opportunities, and a sense of connection and community among current students, Leeds alumni, and corporate partners. PMP mentors prepare and inspire our students to become the next generation of strong business leaders.

This two-year program matches students with executives or high-level business professionals who align by industry, geographic location, or functional area. To ensure a quality experience for both students and mentors, the PMP provides workshops, training, and additional support for participants throughout the program.

Program Benefits

Through this program, students gain an additional level of advising and career counseling from a business professional. Through the mentoring relationships, students can explore choice of majors, potential for graduate school, work-life balance, and effective networking and job search strategies.

Other potential benefits of being involved in the PMP include:

- Advice and assistance on academic questions, career options, life beyond college, and more
- Access to the PMP network and networking opportunities and the opportunity to start building the student's own professional network
- Opportunities to practice and strengthen professional communication and presentation skills
- Help in defining personal and professional goals, and the strategies to achieve them
- Unique internship and job opportunities
- Development of a life-long friend and connection in the business world

Contact Information

Website: leedsmentoring.colorado.edu

E-mail: leedspmp@colorado.edu

Office: Koelbel S220C

Phone: **303-492-5881**

Study Abroad

Study abroad programs are available for students interested in international business or in cultural experiences abroad. The college-sponsored London Seminar in International Finance and Business is a five-week-long program held each summer in the financial district of London and is open to juniors, seniors, and graduate students.

Student Organizations

Listed below are undergraduate organizations that promote professional interests and provide recognition of scholastic attainment:

- Alpha Kappa Psi
- ABC—Athletic Business Club
- Association for Information Systems
- Beta Alpha Psi

- Business and Film Club
- Business of Sports
- Collegiate DECA
- Collegiate Entrepreneurs Organization
- Collegiate Social Impact Initiatives
- CU Energy Club
- CU Finance Club
- CU American Marketing Association
- CU Investment Club
- CU Society for Human Resources Management
- Delta Sigma Pi
- Fashionistas, Inc.
- GLBT Business Leaders Alliance
- Graduate Finance Club
- International Business Club
- Leeds Ambassadors
- Leeds Association of Info Systems
- Leeds Council (Undergraduate Student Government)
- Multicultural Business Student Alliance
- MBA National Association of Women
- Net Impact
- Real Estate Club
- Graduate Real Estate
- Peer-2-Peer Mentors

Leeds School of Business Student Government

Leeds Council is the governing body of the Leeds School of Business that strives to serve, support, and represent the student body. The council also works to make Leeds a better business

school through social, academic, and professional programming. The council is made up of five primary committees and an executive board that control a significant portion of the Leeds student fees.

Two members of Leeds Council also serve as representatives on University of Colorado Student Government (CUSG) to voice the interests of business students at the main campus.

Graduation Recognition Ceremony

Every December and May, the Office of the Dean and the Leeds Business Student Government sponsor a recognition ceremony honoring the graduating class, in addition to the university-wide commencement. Graduates and their families are invited to attend.

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Undergraduate Academic Excellence

Honors

In recognition of high scholastic achievement, upon recommendation of the faculty, the designation "With High Distinction" or "With Distinction" will be awarded at graduation. To qualify for the "With High Distinction" designation, the student's cumulative University of Colorado GPA must be at least 3.90. For the "With Distinction" designation, the student's cumulative GPA must be at least 3.75 but less than 3.90. In addition, for these designations, at least 60 semester hours must have been earned at CU-Boulder.

In addition to the distinction of honors, Leeds School of Business students also may participate in the Latin honors granted by the College of Arts and Sciences. Qualified students are encouraged to participate in this program, which coordinates the offering of a variety of honors seminars as well as the granting of Latin honors (cum laude, magna cum laude, summa cum laude) at graduation. Granting of these honors is determined by the Honors Council based on several criteria, including the quality of original scholarly work (generally reported in the form of a thesis). Latin honors are not conferred on a graduate entering in the summer of 1995 and thereafter simply by virtue of high grades. Interested students should consult the Honors Program listing in the College of Arts and Sciences section or contact the Honors Program in Norlin Library.

Dean's List

Students in the Leeds School of Business who have completed at least 12 semester hours of CU-Boulder course work for a letter grade in any single semester with a term GPA of 3.600 or better are included on the dean's list and receive a notation on their transcript.

Beta Gamma Sigma

Membership in Beta Gamma Sigma is an honor that must be earned through outstanding scholastic achievement. Such membership is the highest scholastic honor that a student in a school of business or management can attain.

To be eligible for Beta Gamma Sigma membership, students must rank in the top ten percent of their junior class, the top 10 percent of their senior class, or be among the top 20 percent of those students receiving master's degrees. Also, students completing all requirements for the doctoral degree conferred by a business school are eligible for Beta Gamma Sigma. It should be noted that Beta Gamma Sigma chapters may be chartered only in those schools of business and management accredited by AACSB, the International Association for Management Education.

Scholarships

Each year the college awards a number of divisional and general scholarships. Business scholarships are for students who have completed business course work at the university. The amount and number of the awards vary each year.



Faculty: Business

| Name | Title | Education |
|----------------------|---|---|
| APPENZELLER, William | assistant professor of recreation emeritus | |
| BAAS, Roy | senior instructor of finance | BS, University of New Orleans |
| BALKIN, David B. | professor of management and entrepreneurship | BA, University of California, Los Angeles; MA, PhD, University of Minnesota |
| BALLANTINE, John Jay | senior instructor of business law | BS, Purdue University; MBA, Indiana University; JD, University of Colorado |
| BANGS, F. Kendrick | professor of business and administration emeritus | |
| BEAGLE, Chauncey M. | associate professor of accounting emeritus | |
| BERNTHAL, Wilmar F. | professor of management and organization emeritus | |
| BHAGAT, Sanjai | professor of finance | BTech, Indian Institute of Technology; MBA, University of Rochester; PhD, University of Washington |
| BORUM, Owen | instructor, CESR | BS, University of Florida; JD, University of Colorado |
| BOSS, R. Wayne | professor of management and entrepreneurship | BS, MPA, Brigham Young University; PhD, University of Georgia |
| BROWN, Daniel | senior instructor of finance | BA, Cornell University; DPhil, Oxford University |
| BUCHMAN, Thomas A. | associate professor of accounting | BS, MS, PhD, University of Illinois |
| CACCIA, Roberto | senior instructor of finance | Laurea, University of Rome; MBA, Massachusetts Institute of Technology; PhD, University of Rome |
| CAMPBELL, Meg | professor of marketing | AB, PhD, Stanford University |
| CATEORA, Phillip R. | professor of marketing emeritus | |
| CHEN, Hui | assistant professor of accounting | BA, MA, Northeast Normal University, China; MBA, Stuttgart Institute of Management and Technology; PhD, University of Tennessee |
| CHEN, Zeyun (Jeff) | assistant professor of accounting | BBA, Fudan University; MBA, University of Louisiana; PhD, University of Houston |
| CHRISTOFF, Lorna | instructor, CESR | BS, University of Colorado; JD, University of Denver |
| CORRELL, Mark R. | senior instructor of business economics emeritus | |
| CROPANZANO, | professor of management and entrepreneurship | BA, Louisiana State University; MA, Southern Methodist University; PhD, Purdue University |

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|----------------------|--|---|
| Russell | | |
| CROSS, Beth | instructor, CESR | BS, Springfield College; MEd, Colorado State University |
| DARNELL, Jerome C. | professor of finance emeritus | |
| de LANGHE, Bart | assistant professor of marketing | BA, MA, Catholic University Leuven, Belgium; PhD, Erasmus University, the Netherlands |
| DEMAREE, John D. | associate professor of management science and information systems emeritus | |
| DONCHEZ, Robert | senior instructor of finance | BS, Lehigh University; MBA, Fordham University |
| DUNCAN, Calvin P. | associate professor of marketing | BS, MBA, University of Colorado; PhD, Indiana University |
| ENGEL, Steven | senior instructor of marketing emeritus | |
| FERNBACH, Phillip M. | assistant professor of marketing | BA, Williams College; PhD, Brown University |
| FOO, Maw Der | associate professor of management and entrepreneurship | BA, National University of Singapore; PhD, Massachusetts Institute of Technology |
| FREDERICK, David M. | associate professor of accounting | BS, University of Colorado; PhD, University of Michigan |
| FUND, Bret | assistant professor of management and entrepreneurship | BA, MA, Brigham Young University; PhD, Penn State University |
| GARNAND, John J. | senior instructor of business economics emeritus | |
| GLOVER, Fred W. | professor of management science and operations research emeritus | |
| GOELDNER, Charles R. | professor of marketing emeritus | |
| GORDON, Kenneth R. | senior instructor of operations management emeritus | |
| GROSS, David | senior instructor of finance | BA, New York University; MBA, Fordham University; PhD, University of Colorado |
| GUNNY, Katherine A. | assistant professor of accounting | BS, MS, University of California, Davis; PhD, University of California, Berkeley |
| HALL, Renée | senior instructor of accounting; director of MS program in accounting | BA, Whitman College; MA, University of Chicago; MS, PhD, Texas A&M University |
| HAYWARD, Mathew | associate professor of management and entrepreneurship | BC, University of Melbourne; PhD, Columbia University |
| HE, Chuan | associate professor of marketing | BA, Memorial University of Newfoundland; MA, University of Toronto; PhD, Washington University |
| HEKMAN, David | assistant professor of management and entrepreneurship | BS, Grand Valley State University; PhD, University of Washington, Seattle |
| HEKMAN, David | assistant professor of management and entrepreneurship | BS, Grand Valley State University; PhD, University of Washington, Seattle |
| IKENBERRY, David L. | dean, Leeds School of Business; professor of finance | BS, Penn State University; MM, Northwestern University; PhD, University of Illinois |
| IYENGAR, Kishen | instructor of operations and information management | BS, MBA, Osmania University; MS, University of Texas–Dallas; PhD, University of Texas–Arlington |
| JACKSON, Betty R. | professor of accounting emerita | |
| JAGOLINZER, Alan | associate professor of accounting | BS, Pennsylvania State University; MBA, Syracuse University; PhD, Pennsylvania State University |
| JEDAMUS, Paul E. | professor of management science and information systems emeritus | |

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| JENNINGS, Tracy | senior instructor of management and entrepreneurship | BA, Williams College; MBA, PhD, University of Denver |
| JENSEN, Howard G. | associate professor of accounting emeritus | |
| JOHNSTON, Randy | senior instructor of accounting | BS, MS, Clarkson University; MEd, St. Lawrence University |
| JORGENSEN, Bjorn | Tisone Chair of Accounting; associate professor of accounting | MS, University of Aarhus; PhD, Northwestern University |
| KAHL, Matthais | assistant professor of finance | M Phil, University of Cambridge; MA, PhD, University of Pennsylvania |
| KOBERG, Christine S. | associate professor of strategy and organization management emerita | |
| KOLB, Burton A. | professor of finance emeritus | |
| KOZAR, Kenneth A. | professor of information management | BS, MS, PhD, University of Minnesota |
| LAGUNA, Manuel | professor of operations management | BS, Monterrey Technologie at Queretaro, Mexico; MS, PhD, University of Texas at Austin |
| LARSEN, Kai | associate professor of information management | PhD, Nelson A. Rockefeller College, University of Albany, State University of New York |
| LAWRENCE , Stephen R. | associate professor of operations management | BS, MS, Purdue University; MS, PhD, Carnegie Mellon University |
| LAZAR, Joseph | professor of business law emeritus | |
| LEACH, J. Chris | professor of finance; senior associate dean for faculty | BS, Oral Roberts University; MBA University of New Mexico; PhD, Cornell University |
| LEE, Jintae | associate professor of information management | BA, University of Chicago; MA, Harvard University; MPhil, University of Cambridge, England; PhD, Massachusetts Institute of Technology |
| LEWIS, Barry L. | professor of accounting emeritus | |
| LICHTENSTEIN, Donald R. | professor of marketing | BS, University of Alabama; PhD, University of South Carolina |
| LYMBEROPOULOS, P. John | professor of finance emeritus | |
| LYNCH, Jr., John G. | Ted G. Anderson Professor of Free Enterprise; professor of marketing | BA, MA, PhD, University of Illinois |
| MACALUSO, Gregg | instructor of management and entrepreneurship | BS, Regis University, Colorado; MS, University of California, Irvine; Executive MBA, Northwestern University |
| MACFEE, Jr., Raymond D. | senior instructor in accounting emeritus | |
| MATUSIK, Sharon | associate professor of management and entrepreneurship | BA, Colby College; PhD, University of Washington |
| McGRAW, A. Peter | associate professor of marketing | BA, MEd, Rutgers University; MA, PhD, Ohio State University |
| McMAHON, Kevin | instructor, CESR | BA, University of Michigan; MBA, Indiana University |
| MELICHER, Ronald W. | President's Teaching Scholar; professor of finance | BS, MBA, DBA, Washington University, St. Louis |
| MEYER, G. Dale | professor of strategy and organization management emeritus | |
| MILBURN, Catherine K | instructor, CESR | BA, MS, University of Colorado |
| MILNER, Francy | associate director, Campus and Community Partnerships, instructor, | BA, University of Colorado; MA, University of Texas; JD, Lewis and Clark |

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|-----------------------|---|--|
| | CESR | |
| MONTEALEGRE, Ramiro | director, international management program; associate professor of information management | BSI, Universidad Francisco Marroquin; MS, Carleton University; DBA, Harvard University |
| MOREAU, Page | professor of marketing | BA, Davidson College; MBA, Tulane University; PhD, Columbia University |
| MORLEY, Susan | senior instructor of accounting | BA, University of Kentucky; MS, JD, University of Colorado |
| MORRISON, Edward J. | professor of strategy and organization management emeritus | |
| MOYEN, Natalie | associate professor of finance | BSc, Université de Moncton; MA, Queen's University of Kingston; PhD, University of British Columbia |
| MOYES, Frank | distinguished executive in residence; senior instructor of entrepreneurship | BA, Pennsylvania State University; MBA, University of Pennsylvania |
| MUELLER, Erick | senior instructor of management and entrepreneurship | BS, Eastern Michigan University; MA, University of Colorado |
| NELSON, James E. | associate professor of marketing emeritus | |
| NELSON, Thomas | senior instructor of finance | BA, MBA, PhD, University of Colorado |
| NILSSON, Matthais | assistant professor of finance | MS, PhD, Stockholm School of Economics |
| OBREJA, Iulian | assistant professor of finance | BA, MS, University of Bucharest; MA, University of Rochester; MSIA, PhD, Carnegie Mellon University |
| PALMER, Michael | professor of finance emeritus | |
| PAPUZZA, Antonio | instructor of management and entrepreneurship | BA, University of Palermo; PhD, University of Florence |
| PARKIN, Don | professor of marketing emeritus | |
| PAYNE, David | instructor, CESR | BA, Trinity College; Ed.M. Harvard University, MBA, University of Colorado |
| PENG, Liang | associate professor of real estate | BS, MS, Renmin University of China; MPhil, MA, PhD, Yale University |
| PINHEIRO, Roberto | assistant professor of finance | BA, University of Sao Paulo; MA, Pontifical Catholic University of Rio de Janeiro; PhD, University of Pennsylvania |
| RICHEY, Clyde W. | professor of real estate emeritus | |
| RINGGENBERG, Ralph G. | associate professor of finance emeritus | |
| ROCK, Steven K. | associate professor of accounting | BS, MBA, Shippensburg University; PhD, Pennsylvania State University |
| ROSSE, Joseph G. | professor of management and entrepreneurship | BS, Loyola University of Los Angeles; PhD, University of Illinois |
| RUSH, David F. | professor of finance emeritus | |
| SCHATTKER, Rudolph | professor of accounting emeritus | |
| SELTO, Frank | professor of accounting | BSME, Gonzaga University; MSME, University of Utah; MBA, PhD, University of Washington |
| SEWARD, Lori | senior instructor of management and entrepreneurship | BA, MSci, PhD, Virginia Tech |
| SHRIVER, Stacy | instructor of management | BS, Arizona State University |

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School of Education

Lorrie A. Shepard, dean
 249 UCB • phone: 303-492-6937 •
 fax: 303-492-7090
School website:
www.colorado.edu/education



THE SCHOOL OF EDUCATION offers programs that prepare individuals to lead in a wide array of educational settings, including teaching in K-12 classrooms, conducting educational research, developing evidence-based policy, and designing innovative learning environments both in schools and in community-based settings.

The school provides teacher licensure programs that ensure rigorous content preparation and extensive clinical experience in local partner schools. Teacher licensure programs are available at the undergraduate, post-baccalaureate, and master's level. The School of Education collaborates with the College of Arts & Sciences to design degree programs for undergraduates that combine a major in Arts & Sciences with courses and field experiences in education that lead to a Colorado initial license. The school also offers an undergraduate minor in education for those interested in educational issues, serving in the Peace Corps, and/or working in community-based settings.

Graduate programs in the school serve practicing teachers as well as those seeking to improve education through rigorous research and evidence-based policy and practice. The school's doctoral program is a cohort-based, full-time program that prepares individuals to lead in universities, research or policy institutes, state or government agencies, and innovative non-profit organizations.

Mission

The School of Education is dedicated to inspiring and preparing educators, researchers, and policy makers who understand and further the democratic foundations of education, who are committed to social justice, who seek to bring about greater equity and access in education, and who will draw upon evidence-based policy and practice to improve the quality of education in both Colorado and the world.

Accreditation

The licensure programs, both undergraduate and graduate, are fully accredited by the North Central Association of Colleges and Schools, the National Council for Accreditation of Teacher Education, the Colorado Department of Education, and the Colorado Commission on Higher Education.





Academic Excellence

Scholarships and Awards

A limited number of scholarships and awards are available for second- and third-year candidates within the School of Education to support study at the master's and undergraduate levels. Each year a combination of teaching assistantships (TAs), research assistantships (RAs), other forms of graduate assistantships (GAs), and fellowships are available in the School of Education to support full-time doctoral study. The strongest doctoral applicants are nominated by the school for fellowships awarded by the Graduate School. Candidates apply in the spring semester for scholarships and awards for the following school year. Application procedures and deadlines are publicized on the School of Education website.

Students are eligible to apply for university-wide financial assistance through the Office of Financial Aid. State and federal programs are available for loan cancellation or forgiveness for Colorado teachers of certain subjects or who teach in designated schools serving students from low-income families. Information about these opportunities may be found at www.colorado.edu/education.

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Programs of Study

Teacher Licensure Programs

The School of Education offers course work leading to initial Colorado licensure to undergraduate, postbaccalaureate, and master's degree students in the fields of elementary through secondary education.

Course code for this program is EDUC.

Education as a Minor Field

MA programs outside of the School of Education can include education as a minor if both their major department and the associate dean for graduate studies in the School of Education approve.

Course code for this program is EDUC.

Graduate Degree Programs

The School of Education offers the following degrees for graduate study:

- Curriculum and Instruction (MA, PhD)
- Educational-Psychological Studies (MA, PhD)
- Research and Evaluation Methodology (PhD)
- Social and Multicultural Bilingual Foundations (MA, PhD)

Course code for this program is EDUC.

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Faculty: Education

| Name | Title | Education |
|------------------------|------------------------------|---|
| ANDERSON, Ronald | professor emeritus | |
| ANDREW, Julie | instructor | BA, Carlton College; MS, University of New South Wales, NSW, Australia |
| ARAGON, Lorenzo | assistant research professor | BA, University of Northern Colorado; MA, University of Colorado Boulder; PhD, University of Colorado Denver |
| BACA, Leonard M. | professor | STB, Catholic University of America, MA, University of New Mexico; EdD, University of Northern Colorado |
| BEGLEY, Donna | senior instructor | BS, University of Southern Oregon and University of Alaska; MEd, College of William and Mary; PhD; Southern Illinois University |
| BOARDMAN, Alison G. | assistant research professor | BA, University of California, Los Angeles; MA, University of San Francisco; PhD, University of Texas at Austin |
| BRIGGS, Derek | associate professor | BA, Carleton College; PhD, University of California, Berkeley |
| BUNNING, Kim | instructor | BA, University of Wyoming; PhD, University of Colorado |
| CAMILLI, Gregory | professor | BA, MA, PhD, University of Colorado |
| CLINE, Ruth | professor emerita | |
| DALTON, Bridget M. | associate professor | BA, American University; MEd, Old Dominion University, Virginia; EdD, Harvard University |
| DiPARDO, Anne | professor | BA, California State University; MA, University of California, Los Angeles; EdD, University of California, Berkeley |
| DiSTEFANO, Philip | chancellor; professor | MA, West Virginia University; BS, PhD, Ohio State University |
| DONATO, Ruben | professor | BA, University of California, Santa Cruz; MA, PhD, Stanford University |
| DUTRO, Elizabeth | associate professor | BS, La Sierra University; MA, San Francisco State University; PhD, University of Michigan |
| EISENHART, Margaret A. | distinguished professor | BA, Emory University; MA, PhD, University of North Carolina |
| ESCAMILLA, Kathy C. | professor | BA, University of Colorado Boulder; MS, University of Kansas; PhD, University of California, Los Angeles |
| FLEXNER, Roberta | associate professor emerita | |
| FURTAk, Erin | assistant professor | BA, University of Colorado Boulder; MA, University of Denver; PhD, Stanford University |
| GLASS, Gene V. | research professor | BA, University of Nebraska; MS, PhD, University of Wisconsin |
| GUTIERREZ, Kris Diane | professor | MA, Arizona State University; PhD, University of Colorado |
| HAAS, John | professor emeritus | |
| HAND, Victoria | assistant professor | BA, University of California, San Diego; MA, PhD, Stanford University |

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|---------------------------|--|---|
| HODGE, Stephen | professor emeritus | |
| HOOVER, John J. | associate research professor | BA, Illinois State University; MA, Northern Arizona University; PhD, University of Colorado Boulder |
| HOPEWELL, Susan | assistant professor | BA, University of Colorado; MA, University of Virginia; PhD, University of Colorado |
| HOPKINS, Kenneth | professor emeritus | |
| HOUSE, Ernie | professor emeritus | |
| HOWE, Kenneth R. | professor | BA, MA, PhD, Michigan State University |
| JUROW, A. Susan | associate professor | BA, New York University; MA, PhD, University of California, Berkeley |
| KIRSHNER, Benjamin R. | associate professor | BA, Brown University; MA, Harvard University; PhD, Stanford University |
| KLINGNER, Janette | professor | BA, San Jose State University; MS, PhD, University of Miami |
| KRAFT, Richard | professor emeritus | |
| LANGER, Phillip | professor emeritus | |
| LeCOMPTE, Margaret D. | professor emeritus | |
| LINN, Robert L. | distinguished professor emeritus | |
| LISTON, Daniel P. | professor | BA, Earlham College; PhD, University of Wisconsin |
| LOPEZ, Enrique | assistant professor | BA, MS, California State University, Fresno; PhD, Stanford University |
| MAUL, Andrew | assistant professor | BA, MA, PhD, University of California, Berkeley |
| McGINLEY, William | associate professor | AB, Western Kentucky University; MEd, Idaho State University; PhD, University of Illinois |
| MIZELL, Linda | assistant professor | BA, MA, Mount Holyoke College; EdD, Harvard Graduate School of Education |
| MOSES, Michele | associate dean for graduate studies; professor | BA, University of Virginia; MEd, University of Vermont; MA, PhD, University of Colorado Boulder |
| NEWSOME HUTT, Collinus | senior instructor | BA, University of Illinois, Champaign-Urbana; MA, University of Colorado |
| OTERO, Valerie K. | associate professor | BS, University of New Mexico; MS, PhD, University of California, San Diego |
| O'CONNOR, Kevin | assistant professor | BA, St. Joseph's University; PhD, Clark University |
| PENUJEL, William | professor | BA, Clark University; EdM, Harvard University; PhD, Clark University |
| POLMAN, Joseph L. | professor | BA, Brown University; PhD, Northwestern University |
| SHEPARD, Lorrie A. | dean; distinguished professor | BA, Pomona College; MA, PhD, University of Colorado |
| SOLANO-FLORES, Guillermo | professor | BA, MA, National University of Mexico; PhD, University of California, Santa Barbara |
| SOLTERO-GONZALEZ, Lucinda | assistant professor | BA, Universidad Panamerica; MA, PhD, University of Arizona |
| SWADENER, Marc | associate professor emeritus | |
| WEBB, David | associate professor | BS, University of California, Los Angeles; MA, University of California, Santa Barbara; PhD, University Wisconsin-Madison |
| WELNER, Kevin G. | professor | BA, University of California, Santa Barbara; JD, PhD, University of California, Los Angeles |

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| WHITCOMB, Jennifer | associate dean for teacher education; senior instructor | BA, PhD, Stanford University |
| WILLMANN, Kent | instructor | BS, St. Joseph's College; MEd, Colorado State University |
| WOLF, Shelby Anne | professor | BA, University of Richmond; BA, MS, University of Utah; PhD, Stanford University |

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College of Engineering & Applied Science

Robert H. Davis, dean

422 UCB • phone: 303-492-

5071 • fax: 303-492-2199

college website:

www.colorado.edu/engineering



THE COLLEGE OF ENGINEERING AND APPLIED SCIENCE offers the bachelor of science degree in aerospace engineering sciences, architectural engineering, chemical engineering, chemical and biological

engineering, civil engineering, electrical engineering, electrical and computer engineering, environmental engineering, mechanical engineering, computer science, applied mathematics, and engineering physics. The first nine of the programs are accredited by the Engineering Accreditation Commission of ABET (see www.abet.org). The tenth is accredited by the Computing Accreditation Commission of ABET. The two remaining programs are applied sciences; accreditation by ABET is not usually sought in these areas. The CU-Boulder campus is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. Degrees in applied mathematics and engineering physics are offered in cooperation with the Departments of Applied Mathematics and Physics in the College of Arts and Sciences.

Mission

The mission of the College of Engineering and Applied Science is to generate new knowledge in engineering and related fields and to equip students from diverse backgrounds as future leaders and responsible citizens in these fields for the betterment of individuals and society. Its vision is to be a world leader in engineering research and education, with an emphasis on *integrated and discovery learning* and on *engineering for global society*.

The college embraces the following core values:

- Innovative research, creating knowledge to improve the global society
- Integrated learning, where students learn through team-based projects and other hands-on experiences integrated with traditional theory-based curricula
- Discovery, professional, and service learning, where students learn by undertaking research, internships, international experiences, and campus or community projects
- Inclusive excellence of diverse faculty, staff, and students, with high ethical standards of integrity, responsibility, honesty, and respect for others from differing backgrounds

The college seeks the following outcomes in their graduates:

- Technical excellence and knowledge in modern engineering, mathematics, and science
- Ability to communicate effectively with diverse peoples and other cultures
- Ability to think critically, analyze data, and formulate and solve complex problems
- Ability to contribute effectively as individuals and in multidisciplinary teams
- Knowledge of contemporary issues and preparation for societal leadership and world citizenship
- Desire and skills for lifelong learning and personal and professional development
- Passion for serving others and commitment to sustainability

Additional information about the academic programs, services, and faculty of the College of Engineering and Applied Science is found at www.colorado.edu/engineering.

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Graduate School

John Stevenson, dean

26 UCB • phone: 303-492-

7401 • fax: 303-492-5777

school website:

www.colorado.edu/graduateschool



GRADUATE WORK at the University of Colorado began on a small scale in 1892. Following years of development, the Graduate School was organized in 1909 with a separate faculty. Each of the three campuses of the University of Colorado system now offers graduate degree programs, and a dean is in residence on each campus. The Graduate School at CU-Boulder is governed by its own set of [Graduate School Rules](#).

Currently overseeing 100 graduate and professional programs, the Graduate School works to guarantee a standard of quality and cohesion across all disciplines, ensuring the continuing integrity and value of a CU-Boulder graduate degree. The Graduate School also helps make possible the many connections between the campus and outside constituencies, in the state, the nation, and the world.

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Funding for Graduate School

CU-Boulder administers various forms of financial assistance for graduate students: fellowships, traineeships, scholarships, research and teaching assistantships, and awards from outside agencies.

Financial Aid for Graduate Study

The University of Colorado offers several types of financial assistance for graduate students who demonstrate financial need. Students apply for assistance by submitting a financial aid application (the FAFSA) as soon as possible after January 1.

Colorado residents may be eligible for the Colorado Graduate Grant program and the Graduate Fee Grant program. Both are automatically considered with the FAFSA application.

Graduate students may apply for long-term loans through the Stafford Loan (formerly GSL) program or the Perkins Loan program (formerly the National Direct Student Loan) and for part-time jobs through the college work-study program.

Graduate Part-Time Instructors and Teaching Assistants

Many departments employ graduate students as graduate part-time instructors (GPTIs) or as teaching assistants (TAs). GPTIs must possess a master's degree or the equivalent and have demonstrated competence in classroom teaching. Teaching assistants are not required to have previous teaching experience. In order to be eligible to be a GPTI or a TA, one must be a fully enrolled graduate student, with a cumulative GPA of at least 3.00. Compensation is based on the percentage of time worked, and includes a tuition waiver and partial insurance benefit.

Research Assistants

In many departments, research activities provide opportunities for graduate students to work part time as research assistants. All research assistants must maintain a cumulative GPA of at least 3.00 and be full-time regularly enrolled graduate students. Compensation is based on percentage of time worked and includes a tuition waiver and partial insurance benefit.

Scholarships and Fellowships

The Chancellor's Graduate Fellowship Program, instituted in 1984–85, attracts outstanding students for graduate study at the University of Colorado. Selected students receive a stipend of \$25,000 for two academic years and a full waiver of all tuition, fees, and insurance. Recipients must be entering master's or doctoral degree students and be nominated by their department.

Additional fellowships are available from private sources. Fellowships, traineeships, and scholarships are also offered by some departments.

Information on other funding opportunities is available on the Graduate School website at www.colorado.edu/graduateschool/funding.





Research Institutes and Centers

Some important graduate study at CU-Boulder is done through, or in partnership with, research institutes and centers.

Research Institutes

Over more than 50 years, CU-Boulder has developed a tradition of interdisciplinary collaboration throughout the university community and beyond. At the heart of this tradition is a system of world-class research institutes that create a dynamic environment for discovery and learning.

Since the first institutes emerged a half-century ago, research teams of faculty, students, and external partners have tackled complex questions from multiple perspectives, leading to important advances in human knowledge. These learning enterprises offer common ground for scholars and students to collaborate on issues that confront the world—in such areas as climate; energy resources; atmosphere; outer space; human behavior; solar energy; the human mind; and atomic, molecular and optics studies.

CU-Boulder's 11 research institutes account for more than half of all sponsored research dollars at the university, and they employ some of the most productive researchers in the country. With more than 900 researchers and supporting staff, the institutes make a major contribution to the university's research and education missions as well as the local and area economy. Numerous graduate students are employed by the institutes, which contribute to the quality of graduate education at CU-Boulder.

- [The Alliance for Technology, Learning, and Society \(ATLAS\)](#)
- [The BioFrontiers Institute](#)
- [The Cooperative Institute for Research in Environmental Sciences \(CIRES\)](#)
- [The Institute of Arctic and Alpine Research \(INSTAAR\)](#)
- [The Institute for Behavioral Genetics \(IBG\)](#)
- [The Institute of Behavioral Science \(IBS\)](#)
- [The Institute of Cognitive Science \(ICS\)](#)
- [JILA \(formerly the Joint Institute for Laboratory Astrophysics\)](#)
- [The Laboratory for Atmospheric and Space Physics \(LASP\)](#)
- [The Renewable and Sustainable Energy Institute \(RASEI\)](#)
- [University of Colorado Museum of Natural History](#)

Research Centers

In addition to the large research institutes, there are nearly 90 [research centers](#) housed within academic departments or as subsets of the research institutes themselves. They can be found in all fields of the university, including humanities and the arts, social sciences, natural sciences, engineering, business, and law.

The centers cover a broad range of topics, from multicultural education and astrophysics to glaciology and prevention of violence. They grant fellowships, sponsor internships, house archives for research, conduct competitions with cash awards, host public debates and programs, and support graduate study in many other ways.





Requirements for Advanced Degrees

A graduate student is responsible for becoming informed about and observing all regulations and procedures required by the graduate program pursued. Ignorance of a rule does not constitute a basis for waiving that rule. Any exceptions to the policies stated in this catalog must be approved by the dean of the Graduate School.

Additionally, all research must comply with campus and federal research regulations. See the research administration website at www.colorado.edu/VCRsearch/integrity.

Graduate Faculty Appointments for Courses and Exams

All courses, 5000-level or above, completed to fulfill graduate degree requirements must be taught by members of the graduate faculty. In addition, any faculty member serving on a master's or doctoral examination/defense committee must hold a current graduate faculty appointment. Membership on the university faculty does not automatically constitute an appointment to the graduate faculty. Contact your departmental graduate program assistant for questions concerning these appointments.

Master's Degrees

A student enrolled in a master's program must satisfy the degree requirements of both the Graduate School and the major department. The requirements listed below are the minimum standards of the Graduate School; additional requirements are set forth by the major department.

Minimum Requirements

The minimum requirement for the master's degree is 30 credit hours. A student may complete a Plan I (thesis) option, or a Plan II (course work) option. At least 24 hours must be completed at the 5000 level or above; these 24 hours must include a minimum of 4, but not more than 6, thesis hours for those students completing a Plan I degree. A maximum of 6 credit hours may be completed at the 3000 or 4000 level at the discretion of the academic department.

Independent study course work cannot exceed 25 percent of the course work required for the master's degree.

Master's Thesis

A thesis, which may be research or expository, critical, or creative work, is required of every master's degree candidate under Plan I. Every thesis presented in partial fulfillment of the requirements for an advanced degree must accomplish the following:

- represent the equivalent of 4–6 semester hours of work, and
- comply in mechanical features with the specifications for theses and dissertations available in the Graduate School.

The final grade is withheld until the thesis is completed; if the thesis is not finished at the end of the term in which the student is registered, an in-progress (*IP*) grade is reported.

Language Requirement

There is no campuswide foreign language requirement for the master's degree. The decision regarding the foreign language requirement for each graduate degree is the responsibility of the graduate program.

Time Limit

Master's degree students have four years (six years for students pursuing an ME) from the semester in which they are admitted and begin course work to complete all degree requirements. The phrase "all degree requirements" includes the filing of the thesis with the Graduate School if Plan I is followed. Students who fail to complete the degree in this four-year period may be dismissed from their program with the concurrence of the major advisor and/or appropriate departmental personnel. To continue, the student must file a petition for an extension of the time limit with the dean of the Graduate School. Such petitions must be endorsed by the student's major advisor and/or other appropriate departmental personnel and may be granted for up to one year.

Students who have not completed the degree within their time limit, and who have received approval for an extension, must have any course work completed more than five years prior to the

completion of the degree requirements evaluated by their department for relevance and applicability. At the discretion of the department the student may be required to validate these courses as part of the completion of their degree requirements.

Students who need to leave CU-Boulder for a period of time may apply to the Time Off Program for up to one year. Participation in the Time Off Program does not extend the student's time limit, but may be used as a reason to request an extension.

Students whose registration at CU-Boulder is interrupted by military service may apply to the dean of the Graduate School for an extension.

Minimum Registration Requirement

Master's degree minimum registration requirements can be met only by full-time registration at CU-Boulder for at least two semesters, at least three summer sessions, or a combination of at least one semester and two summer sessions/part-time semesters.

For purposes of deciding minimum registration credit toward a graduate degree, a student must be registered as a full-time student. One semester of minimum registration credit may be earned for full-time registration during the fall or spring semesters or two summer semesters/part-time semesters.

To be a full-time master's student, a student must carry one of the following course loads: a minimum of 5 credits of graduate course work, 8 credits of combined undergraduate and graduate course work, 12 hours of undergraduate course work, at least 1 master's thesis hour, or at least 1 hour of "Master's Candidate for Degree." Full- and half-time standards may be different for students receiving federal or state financial aid. Students should contact the Office of Financial Aid to see if these standards apply. These different standards are for financial aid purposes only.

Candidacy and Graduation

To be granted a master's degree, a student must become a candidate for that degree by filing an Application for Admission to Candidacy with the Graduate School no later than the posted graduation deadlines during the semester in which he or she plans to have the degree conferred. Students must meet all posted graduation deadlines in order to receive a degree in any given semester.

Comprehensive-Final Examination

Each candidate for a master's degree is required to take a comprehensive-final examination/thesis defense after the requirements for the degree have been substantially completed or to present an approved degree plan which meets the requirements of the field and represents an intellectually coherent graduate education as determined by the major department. The examination/defense may be given near the end of the student's last semester while the candidate is still taking required courses for the degree, provided satisfactory progress is being made in those courses. The approved degree plan must be approved by the department chair, graduate director, and major advisor on the Degree Plan Approval Form. The Degree Plan Approval option is available only in select departments.

The following rules apply to the comprehensive-final examination:

1. A student must be registered on the Boulder campus as a regular degree-seeking student during the semester the examination is passed.
2. Notice of the examination/defense must be filed by the major department in the Graduate School at least two weeks prior to the examination/defense. The examination/defense must be scheduled no later than the posted deadline for the semester in which the degree is to be conferred.
3. The exam is given by a committee of three graduate faculty members appointed by the department with approval of the dean of the Graduate School. The chair of the committee must have a regular or tenured graduate faculty appointment.
4. The examination, which may be oral, written, or both, must cover the thesis (which should be essentially complete), other work completed in courses and seminars in the major field, and all work presented for the degree.
5. A student must have an affirmative vote from the majority of the committee members to pass. A student who fails the comprehensive-final examination may attempt it once more after a period of time determined by the examining committee.

Doctor of Philosophy, Doctor of Musical Arts, and Doctor of Audiology

The doctor of philosophy (PhD), the doctor of musical arts (DMusA), and the doctor of audiology (AuD) are the highest academic degrees conferred by CU-Boulder. The requirements stated below are minimal requirements for all candidates for the PhD degree; additional conditions are found in department announcements. Additional requirements for the doctor of musical arts are available from the College of Music. Additional requirements for the doctor of audiology are available from the Department of Speech, Language, and Hearing Sciences.

Admission

A student admitted to the Graduate School for the master's program must reapply for admission for the doctoral program.

Minimum Course Requirement

The minimum requirements for the PhD or DMusA degree are 30 credit hours of course work at the 5000 level or above. Those students pursuing the PhD shall complete a minimum of 30 credit hours of dissertation work beyond the minimum course work requirement. The minimum transfer requirements for the AuD degree are 97 credit hours of course work at the 5000 level or above.

Unless otherwise specified by departmental requirements, all courses taken at the 5000 level or above that were taken for the master's degree at CU-Boulder may be applied toward the PhD degree. Course work taken in pursuit of a doctoral degree cannot be applied toward a subsequent master's degree.

Dissertation Credit-Hour Requirement

To complete the requirements for the PhD degree, a student must register for a minimum of 30 dissertation credit hours. Distribution of those hours is as follows:

1. A student may not register for more than 10 dissertation credit hours in any one semester.
2. Not more than 10 dissertation credit hours taken in semesters prior to the semester in which the comprehensive examination is passed may be counted in the 30 dissertation hours required for the degree.
3. Not more than 10 dissertation hours of credit taken the semester in which the comprehensive examination is passed may be included in the 30 dissertation credit hours required for the degree.

Minimum Registration Requirement

The minimum registration requirement for doctoral students is six semesters beyond the attainment of an acceptable bachelor's degree. Two semesters of minimum registration credit may be allowed for a master's degree from an accredited institution; however, at least four semesters of minimum registration credit, two of which must be consecutive in one academic year, must be earned for work taken at CU-Boulder.

For purposes of deciding minimum registration credit toward a graduate degree, a student must be registered as a full-time student. One semester of minimum registration credit may be earned for full-time registration during the fall or spring semester or during two summer semesters. Doctoral students who have not passed the comprehensive examination are considered full time during the spring and fall semesters if they are enrolled for at least 5 credit hours of course work at the graduate level, 8 credit hours of combined undergraduate and graduate hours, 12 credit hours of course work at the undergraduate level, or at least 1 doctoral dissertation hour. DMA students who have not passed their comprehensive exam may also be considered full time if they are taking 1 hour of course work numbered 8200–8399 or TMUS 8019. Doctoral students who have passed the comprehensive examination must register for at least 5 doctoral dissertation hours to be considered full-time students. DMA students who have passed their comprehensive examination must register for 1 hour of course work numbered 8200–8399 or TMUS 8029 to be considered full time. Doctor of audiology students are considered full-time students if they are enrolled for at least 5 credit hours of course work at the graduate level, 8 hours of course work of combined undergraduate and graduate hours, or 12 credit hours of course work at the undergraduate level. Full- and half-time standards may be different for students receiving federal or state financial aid. Students should contact the Office of Financial Aid to see if these standards apply. These different standards are for financial aid purposes only.

Preliminary Examination

Each department determines for itself (by examination or other means) that students who wish to study for the doctoral degree are qualified. The means by which each department makes this evaluation are specified in departmental requirements. Students who are thus evaluated are notified immediately of the results.

Language Requirement

There is no campuswide foreign language requirement for the doctoral degree. The decision regarding the foreign language requirement for each graduate degree is the responsibility of the graduate program.

Comprehensive Examination

Before admission to candidacy for the doctoral degree, students must pass a comprehensive examination in the field of concentration and related fields.

The following rules apply to the doctoral comprehensive examination.

1. Students must be registered (pass/fail or credit) on the Boulder campus as regular degree-seeking students when they pass the comprehensive examination.
2. Notice of the examination must be filed by the major department with the Graduate School at least two weeks before the examination.
3. The examination is conducted by an examining board appointed by the chair of the major department and approved by the dean of the Graduate School. The board consists of the major advisor and additional members as necessary to a minimum of five. The chair must have a regular or tenured graduate faculty appointment. Successful candidates must receive affirmative votes from a majority of the members of their examination board. A candidate who fails the examination may attempt it once more after a period of time determined by the examination board.

4. The examination, which may be oral, written, or both, tests mastery of a broad field of knowledge, not merely formal course work. The oral part is open to members of the graduate faculty.

Admission to Candidacy

A student must formally apply for admission to candidacy for the doctoral degree on forms supplied by the Graduate School at least two weeks before attempting the comprehensive examination. Before being admitted to candidacy a student must earn at least three semesters toward the minimum registration requirement, and pass the comprehensive examination.

Continuous Registration Requirement

A PhD student is required to register continuously for a minimum of 5 dissertation hours in the fall and spring semesters of each year, beginning with the semester following the passing of the comprehensive examination and extending through the semester in which the dissertation is successfully defended (final examination). DMusA students must maintain continuous registration for at least 1 credit of course work numbered 8200–8399 (or TMUS 8029). AuD students must maintain continuous registration for appropriate course work in the fall and spring semesters of each year through the semester in which the final exam is passed.

1. A student not required to maintain full-time status and not using campus facilities may claim off-campus status, which allows registration for 3 rather than the minimum of 5 dissertation credit hours. Off-campus status (3 credits of dissertation hours) is considered part-time. All CU-Boulder considerations for part-time status apply.
2. A student who fails to register continuously for dissertation credit hours after passing the comprehensive examination must retake and pass the comprehensive examination in order to regain status as a student in good standing in the Graduate School. The department may require that the student validate course work more than five years old. At its discretion, the department may petition the dean of the Graduate School for a time limit for completion of all degree requirements of up to one year after the retaking of the comprehensive exam. The department must petition the dean of the Graduate School to waive the requirement to retake the comprehensive exam.
3. A PhD student must be registered full time for a minimum of 5 dissertation hours during the semester (including summer session) in which the dissertation defense is passed. DMusA students must be registered full time in course work numbered 8200–8399 (or TMUS 8029) during the semester in which the dissertation defense is passed. AuD students must be registered full time for 5 hours of graduate level course work or 8 hours of combined undergraduate and graduate hours during the semester in which the final exam is passed.

Dissertation Requirements

A PhD student must write a dissertation based upon original investigation, showing mature scholarship and critical judgment, as well as familiarity with tools and methods of research. The subject must be approved by the student's major department.

1. Every dissertation presented in partial fulfillment of the requirements for an advanced degree must represent the equivalent of at least 30 semester hours of work.
2. The student is responsible for notifying the Graduate School of the exact title of the dissertation on or before the posted deadlines during the semester in which the doctoral degree is to be conferred.
3. The dissertation must comply in mechanical features with the specifications for theses and dissertations available in the Graduate School.
4. After the dissertation defense, the student is responsible for submitting the dissertation and signature page on or before the posted deadline during the semester in which the doctoral degree is to be conferred.

The final grade is withheld until the dissertation is completed. In progress (*IP*) grades are assigned during each semester until the defense is successfully completed and the final copy of the dissertation is accepted by the examination committee, at which time the final grade for all dissertation hours is submitted to the Graduate School.

Dissertation Defense/Final Exam

After the dissertation has been accepted for defense by the student's committee, a final examination on the dissertation and related topics is conducted. For AuD students, a final examination is conducted in place of the dissertation defense.

The following rules apply to the dissertation defense.

1. A student must be registered as a full-time, regular degree-seeking student at CU-Boulder, for a minimum of 5 dissertation hours during the semester in which the final examination is passed. DMusA students must be registered full time in course work numbered 8200–8399 (or TMUS 8029) during the semester in which the dissertation defense is passed. Doctor of audiology students should be registered during the final exam for 5 credit hours of course work at the graduate level or 8 hours of combined undergraduate and graduate hours.
2. Students must notify the Graduate School of their final oral examination at least two weeks before their scheduled examination date.
3. This examination is wholly or partly oral, the oral part being open to anyone.
4. The examination is conducted by a committee appointed by the chair of the major department and approved by the dean of the Graduate School, which consists of at least five persons, one of whom must be from outside the student's major department. Three of the members must be CU-Boulder graduate faculty. The chair and outside member of the committee must

have regular or tenured graduate faculty appointments. The other committee members must have either regular or special graduate faculty appointments. The chair and a majority of the committee must be present on the Boulder campus for the examination. More than one dissenting vote disqualifies the candidate in the final examination.

5. A student who fails the examination may attempt it once more after a period of time determined by the examining committee.

Time Limit

Doctoral degree students are expected to complete all degree requirements within six years from the semester in which they are admitted and begin course work in the doctoral program. The phrase "all degree requirements" includes the filing of the dissertation and all accompanying forms with the Graduate School. Students who fail to complete the degree in this six-year period may be dismissed from their program with the concurrence of the major advisor and/or appropriate departmental personnel. To continue, the student must file a petition for an extension of the time limit with the dean of the Graduate School. Such petitions must be endorsed by the student's major advisor and/or other appropriate departmental personnel and may be granted for up to one year. If the dean of the Graduate School and the department chair/program director cannot agree on whether a student should continue, the Graduate School's executive advisory council makes the final decision.

Students who need to leave CU-Boulder for a period of time may apply to the Time Off Program for up to one year. Doctoral students who are required to maintain continuous registration may petition for an exception in order to participate in the Time Off Program for parental leave or other extenuating circumstances. Participation in the Time Off Program does not extend the student's time limit, but may be used as a reason if applying for an extension.

Students whose registration at CU-Boulder is interrupted by military service may apply to the dean of the Graduate School for an extension of time.

Graduation

Students must meet all posted graduation deadlines in order to receive a degree in any given semester.

Sequestration of Dissertations

Dissertations approved by the departments and the Graduate School are released to ProQuest/UMI and kept on file electronically at Norlin Library.

Occasionally, the primary academic advisor, after consultation with the student, may find it necessary to sequester the student's dissertation to protect university rights to intellectual property. The university accepts the obligation to protect potentially publishable creative works and potentially patentable subject matter from premature public disclosure so as to preserve entitlement to patent protection while the technology is being evaluated. This sequestration should take place only when it is absolutely required and only for the minimum time necessary.

With just cause, the student may request that an embargo be placed on the publication/sale of the thesis for a reasonable amount of time. This request is made upon the electronic submission of the document.

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Journalism & Mass Communication

Christopher Braider, director
478 UCB • phone: 303-492-
5007 • fax: 303-492-0969
website: journalism.colorado.edu

THE JOURNALISM AND MASS COMMUNICATION PROGRAM (JMC) offers a next-generation media education that prepares its graduates to collaborate within the professional world, engage the public, and produce positive social change.



JMC uses innovative teaching technologies, empowering strategies for responsible democratic engagement, and an integrated curriculum to foster excellence among its students. Students are trained for successful careers in advertising, broadcast, print and online media, photojournalism, public relations, and media analysis.

By encouraging students to apply civic responsibility in their media work, the Journalism and Mass Communication Program seeks to empower audiences through honesty, integrity, and a commitment to social progress. Students learn the significance of their role as media professionals, gaining an appreciation of the profound interactions between mass communication and society in order to approach their work with respect, openness, and a broader cultural perspective. Included in a broad array of professional and conceptual courses are offerings in global media. A large percentage of the program's students study abroad.

JMC is also home to two internationally recognized centers: the Center for Media, Religion and Culture; and the Center for Environmental Journalism.

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Academic Excellence

Director's List

Students in the Journalism and Mass Communication Program who have completed at least 12 credit hours of CU-Boulder course work for a letter grade in any single semester with a term grade point average of 3.75 or better are included on the directors' list and receive a notation on their transcript and a letter from the director.

Honors

Journalism and Mass Communication Program students may graduate with general honors and/or JMC honors. Students interested in general honors must consult the Honors Program office. JMC may award the bachelor's degree with honors to students who have a 3.50 cumulative GPA and a 3.50 GPA in journalism and mass communication courses, complete an honors project, and demonstrate a high degree of professional skill. Application for JMC honors must be made to the student's advisor the semester prior to the one in which the honors project would be done. Transfer students must complete at least 60 hours in residence. Complete information on honors requirements is available at the main office.

Students who achieve a 3.75 overall GPA on 60 or more CU-Boulder hours will graduate with distinction. Students whose academic records rank in the upper 10 percent are eligible for election to Kappa Tau Alpha in recognition of outstanding scholastic achievement.

School Awards and Scholarships

Alumni and friends of JMC have made it possible to provide more than three dozen annual scholarships and awards to officially admitted students in the Journalism and Mass Communication Program sequences. The deadline for application is February 20.

- A. Gayle Waldrop Award
- Arthur B. Levis Scholarship
- Barrie Hartman News Editorial Scholarship
- Boulder Press Club
- Bob and Gloria Palmer Scholarship
- Brian Hostetler Memorial Scholarship
- Chris M. & Chris J. Burns Memorial Scholarship
- Colorado Broadcasters Association
- Colorado Press Women Scholarship
- Courtney Erin Klee Memorial Scholarship
- Denver Woman's Press Club Scholarship
- Dan Creedon Sports Scholarship
- Dominic Manzanares Memorial Scholarship
- Don Ridgway/CHSPA
- Dottie Roberts Foundation Scholarship
- Ed Sardella Broadcast News Scholarship
- Eugene Cervi Memorial Scholarship
- Fred Casotti Sports Information Scholarship
- Gerald C. Bean Memorial Scholarship
- Gladys Van Vranken Parce Memorial Scholarship

Jerry and Lorna Gray Scholarship

- J. Ember and Agnes Sterling Memorial Scholarship
- J. Winton Lemen Memorial Scholarship
- Karsh & Hagan Advertising Scholarship
- Larry and Brigitte Zimmer Sports Announcing Scholarship
- L. C. Paddock Memorial Scholarship
- Leach Family Scholarship
- Lehman Communications Corporation Scholarship
- Mabee Memorial Scholarship
- Marcella G. Hertzog/Georgene Carlson Memorial Scholarship
- Nonie Lann Scholarship
- North American Snowsport Journalism Scholarship
- Philip John Coffey Scholarship Fund
- Ralph Allen Scholarship
- Raymond B. Johnson Memorial Scholarship
- Rick and Linda Reilly News Editorial Scholarship
- Teddy Ebersol Scholarship
- William S. Hemingway Scholarships
- William W. White Awards

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Faculty: Journalism & Mass Communication Program

Faculty members have major-market experience in TV, radio, newspaper, magazine, and advertising. Among the faculty are leading researchers on communication policy; technology and social change; media, religion and culture; marketing and visual communication; international media development; audience behavior; and mass media law.

| Name | Title | Education |
|------------------------|--|--|
| ACKLAND, Len | associate professor | BA, University of Colorado; MA, Johns Hopkins School of Advanced International Studies |
| ARNOLD, Joanne Easley | professor emerita | |
| BERGGREEN, Shu-Ling C. | associate professor | BA, Fu-Zen University; MS, Southern Illinois University; PhD, University of Tennessee |
| BRAIDER, Christopher | director; professor | BA, PhD, Trinity College, Dublin |
| BRINKMAN, P. Delbert | dean emeritus and professor emeritus | |
| CALABRESE, Andrew | professor | BA, Denison University; MA, PhD, Ohio State University |
| CHEVAL, Melinda Kiger | senior instructor | BS, West Virginia University School of Journalism |
| DAUGHERTY, Paul | instructor | BA, MA, University of Colorado Boulder |
| DUNCAN, Thomas R. | professor emeritus | |
| ECHCHAIBI, Nabil | assistant professor | BA, Mohammed V University, Morocco; MA, PhD, Indiana University, Bloomington |
| FISH, Sandra | instructor | BS, MA, Iowa State University |
| HOOVER, Stewart | professor | BA, McPherson College; MA, PhD, University of Pennsylvania |
| JONES, Stephen B. | associate director; assistant dean; senior instructor | BA, MA, West Virginia University; PhD, University of Utah |
| KAPLAN, Frank L. | professor emeritus | |
| KIM, Hun Shik | assistant professor | BA, Chung-Ang University; MA, PhD, University of Missouri |
| KUCZUN, Sam | professor emeritus | |
| LOGAN, Kely | assistant professor | BA, University of California, Los Angeles; MBA, Tulane University; PhD, University of Texas at Austin |
| McDEVITT, Michael J. | associate professor | AB, University of California, Berkeley; MA, San Jose State University; PhD, Stanford University |
| McLEAN, Polly E. | associate professor | BA, Richmond College, City University of New York; MS, Columbia University; PhD, University of Texas |
| MODY, Bella | James de Castro Chair in Global Media Studies; professor | BA, St. Xavier's College, Ranchi University, India; MA Communication, University of Pennsylvania; PhD, Gujarat University, India |

| | | |
|-----------------------|---|---|
| MORIARTY, Sandra E. | professor emerita | |
| MORITZ, Marguerite J. | UNESCO chair; professor | BS, MS, PhD, Northwestern University |
| PECK, Janice A. | associate director; associate professor | BA, University of Utah; MA, University of Washington; PhD, Simon Fraser University |
| RAYBON, Patricia | professor emerita | |
| ROBBS, Brett | associate professor | BA, Rhodes College; MA, PhD, Vanderbilt University |
| ROWLAND, Willard D. | dean emeritus and professor emeritus | |
| RYAN, Kathleen | associate professor | BA, University of California, Santa Barbara; MA, University of Southern California; PhD, University of Oregon |
| SKEWES, Elizabeth A. | associate professor | BA, University of California, Los Angeles; MA, Ohio State University; PhD, Syracuse University |
| SLAYDEN, David | associate professor | BA, Southern Illinois University; MA, University of Chicago; PhD, Indiana University |
| STEVENS, Rick | assistant professor | BS, Abilene Christian University; PhD, University of Texas |
| TRACEY, Michael | professor | BA, University of Exeter; PhD, University of Leicester |
| TRAGER, Robert | professor emeritus | |
| VOAKES, Paul S. | professor | BA, University of California, Davis; M.J., University of California, Berkeley; PhD, University of Wisconsin–Madison |
| WEED, Michael L. | instructor | BA, Duke University |
| WHITT, Jan | professor | BA, MA, Baylor University; PhD, University of Denver |
| YULSMAN, Thomas | associate professor | BA, Harpur College, State University of New York at Binghamton; MS, Columbia University Graduate School of Journalism |

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School of Law

Philip J. Weiser, dean
 401 UCB • phone: 303-492-8047 • fax: 303-492-1757
 school website:
www.colorado.edu/law



THE UNIVERSITY OF COLORADO LAW SCHOOL, established in 1892, has a long and proud history as a top public law school. The first students of color entered in 1898. The school became a charter member of the Association of American Law Schools organized in 1901. The first woman graduated in 1908. And, the school has been on the American Bar Association's list of accredited law schools since its first publication in 1923.

Today, Colorado Law, housed in the beautiful new "green" Wolf Law Building with one of the largest law libraries in the country, is also one of the most technologically advanced law schools in the country. Most importantly, it provides one of the best comprehensive legal educations in the nation, featuring:

- 530 students, selected from the nation's statistically best applicants with diverse backgrounds and representing 100 undergraduate institutions
- A favorable faculty-student ratio (1:10) that produces class sizes that encourage discussion
- 55 highly published resident faculty dedicated to interacting with students inside and outside the classroom
- First-year students who are placed in small sections for more class participation opportunities and to build relationships with classmates and professors
- Full-time, three-year Juris Doctor degree, one-year Master of Law degree, eight dual degrees, four certificates, four centers, and three journals
- An Experiential Learning Program that integrates lawyering activities, including nine legal clinics, externships, public service pledge, and trial and court competitions
- Comprehensive program to prepare students for any career; a quarter of graduates obtain judicial clerkships

Law School Vision

A supportive and diverse community of scholars and students in a place that inspires vigorous pursuit of ideas, critical analysis, and civic engagement in order to advance the rule of law in an open, sustainable society.

Our Mission

- **Teaching:** To employ robust theoretical inquiry, doctrinal and policy analysis, and professional skills.
- **Scholarship:** To explore and discuss ideas, to develop and test new ideas and approaches, to challenge the status quo, and to convey the school's research and ideas to lawyers, academics, policymakers, and the world.
- **Public Service:** To instill in students an awareness of a lawyer's civic responsibilities and opportunities to serve and lead.



Faculty: Law

| Name | Title | Education |
|-------------------------|---|---|
| AARONSON, Norman F. | clinical professor emeritus | |
| BERNTHAL, J. Brad | associate clinical professor | BA, University of Kansas; JD, University of Colorado |
| BLOOM, Frederic | associate professor | BA, Washington University in St. Louis; JD, Stanford University |
| BOYD, William | associate professor | BA, University of North Carolina; MA, PhD, University of California, Berkeley; JD, Stanford University |
| BRISCOE, Georgia | library associate; head of technical services; | BS, Washington State University; MA, University of San Diego; AMLS, University of Michigan |
| BRUFF, Harold | Charles I. Thomson Professor of Law | BA, Williams College; JD, Harvard University |
| BRUNET MARKS, Alexia | associate professor | BA, Colgate University; MS, PhD, Purdue University; JD, Northwestern University |
| CALHOUN, Emily | professor | BA, MA, Texas Tech University; JD, University of Texas |
| CAMPOS, Paul F. | professor | AB, MA, JD, University of Michigan |
| CANTRELL, Deborah | director of clinical education; associate professor | BA, Smith College; MA, University of California, Los Angeles; JD, University of Southern California |
| CARPENTER, Kristen A. | associate dean for faculty development; associate professor | BA, Dartmouth College; JD, Harvard University |
| CHAPIN, Violeta | associate clinical professor | BA, Columbia University; JD, New York University |
| CHENG, Ming | associate professor | AB, Harvard University; JD, New York University School of Law; PhD, University of California, Berkeley |
| COLLINS, Richard B. | professor | BA, Yale University; LLB, Harvard University |
| DESAUTELS-STEIN, Justin | associate professor | BA, JD, University of North Carolina; LLM, Harvard University; MALD, Tufts University The Fletcher School |
| ENGLAND, Ann | associate clinical professor | BA, JD, University of Michigan |
| FLEISCHER, Miranda P. | associate professor | BA, Duke University; JD, University of Chicago; LLM, New York University |
| FLEISCHER, Victor | associate professor | BA, JD, Columbia University |
| FURMAN, H. Patrick | clinical professor emeritus | |
| GAZUR, Wayne M. | professor | BS, University of Wyoming; JD, University of Colorado; LLM, University of Denver |
| GERDING, Erik | associate professor | AB, Duke University; JD, Harvard Law School |

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|---------------------------|---|---|
| GRUBER, Aya | associate professor | BA, University of California, Berkeley; JD, Harvard University |
| GURUSWAMI, Lakshman | Nicholas Doman Professor of International Environmental Law | LLB, Sri Lanka; PhD (Law), University of Durham, United Kingdom |
| HART, Melissa | director of the Byron R. White Center for the Study of American Constitutional Law; associate professor | BA, Harvard-Radcliffe; JD, Harvard University |
| HENDRICKS, Jennifer | associate professor | BA, Swarthmore College; JD, Harvard University |
| HUANG, Peter | Demuth chair; professor | AB, Princeton University; SM and PhD, Harvard University; JD, University of Pennsylvania |
| JIANG, Yumin | technical services librarian; instructor | BE, Peking University; MA, University of Wisconsin-Madison; MS, University of Illinois, Urbana-Champaign |
| KIERNAN-JOHNSON, Derek H. | legal writing professor | AB, Princeton University; JD, University of Michigan |
| KRAKOFF, Sarah A. | professor | BA, Yale University; JD, University of California, Berkeley |
| LINZ, Robert | library associate director; head of Public Services; instructor | BA, Wake Forest University; JD, University of Florida; MLIS, Florida State University |
| LOEWENSTEIN, Mark J. | Monfort Professor of Commercial Law | AB, JD, University of Illinois |
| MACK, Natale | legal writing professor | BA, University of South Carolina; JD, University of Colorado |
| MATTHEW, Dayna | professor | AB, Harvard-Radcliffe; JD, University of Virginia |
| MOSS, Scott | associate professor | BA/MA, Stanford University; JD, Harvard University |
| MUELLER, Christopher B. | Henry S. Lindsley Professor of Procedure and Advocacy | AB, Haverford College; JD, University of California, Berkeley |
| NAGEL, Robert F. | Ira C. Rotherger Jr. Chair in Constitutional Law | BA, Swarthmore College; JD, Yale University |
| NEVELOWMARTS, Susan | law library director, associate professor | BA, University of California, Santa Cruz; JD, University of California, Berkeley; ML.S, San Jose State University |
| NORTON, Helen | associate professor; associate dean for academic affairs | BA, Stanford University; JD, University of California, Berkeley |
| OHM, Paul | associate professor | BS, BA, Yale University; JD, University of California, Los Angeles |
| PANNELL, Alan | reference librarian; instructor | BA, University of Oklahoma; MA, University of Arizona; JD, Western New England |
| PEPPET, Scott R. | associate professor | BA, Cornell University; JD, Harvard University |
| RAMSEY, Carolyn | professor | BA, University of California, Irvine; AM, JD, Stanford University |
| ROBINSON, Colene | associate clinical professor | BA, Miami University of Ohio; JD, Loyola University, Chicago |
| SCHLAG, Pierre | Byron R. White Professor of Constitutional Law | BA, Yale University; JD, University of California, Los Angeles |
| SCHMITZ, Amy J. | associate professor | BA, Drake University; JD, University of Minnesota |
| SCHWARTZ, Andrew | associate professor | ScB, Brown University; JD, Columbia University |
| SELDEN, Karen | catalog librarian; instructor | BS, Pennsylvania State University; MLS, Simmons College |
| SOULES, Michael | associate clinical professor | BA, University of Michigan; MA, University of California, Berkeley; JD, Yale Law School |
| SPAIN, Anna | associate professor | BA, Denison University; JD, Harvard University |

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| SQUILLACE, Mark | professor | BS, Michigan State University; JD, University of Utah |
| STAFFORD, Gabrielle Marks | legal writing professor | BA, University of Pennsylvania; JD, Boston University |
| STAFFORD, Todd M. | director of Legal Writing Program, legal writing professor | BA, Southern Methodist University; JD, Duke University |
| STEUBEN, Norton | Nicholas Rosenbaum Professor of Law emeritus | |
| SURDEN, Harry | associate professor | BA, Cornell University; JD, Stanford University |
| THOMPSON, Jane | library assistant director for faculty services, instructor | BA, University of Missouri, Columbia; MA, MLL, JD, University of Denver |
| WEISER, Phillip J. | dean; director of the Silicon Flatirons Center; professor | BA, Swarthmore College; JD, New York University |
| WESSON, Marianne C. | Wolf-Nichol Fellow; President's Teaching Scholar; professor | AB, Vassar College; JD, University of Texas |
| WHITE, Ahmed | associate dean for research; professor | BA, Southern University; JD, Yale University |
| WILKINSON, Charles | Moses Lasky Professor of Law; distinguished university professor | BA, Denison University; LLB, Stanford University |

University of Colorado Boulder

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College of Music

Daniel P. Sher, dean
 301 UCB • phone: 303-492-
 6352 • fax: 303-492-5619
 college website: music.colorado.edu



THE COLLEGE OF MUSIC provides specialized training designed to prepare students for a variety of careers in music. The college offers three undergraduate degrees, two certificate programs, and four graduate degrees; numerous performance opportunities are also available.

Established by the Regents of the University of Colorado in 1920, the College of Music is a fully accredited member of the National Association of Schools of Music.

Mission

The mission of the College of Music at CU-Boulder is to promote excellence in music through distinguished instruction in performance, composition, musicology, theory and teacher preparation, and to provide opportunities for performance, creative activities, research and scholarship, and teaching.

The college is dedicated to:

- providing music majors the opportunity to develop their knowledge, understanding, and ability in the various aspects of music;
- preparing students for careers as performers, composers, scholars, teachers, administrators, and other professionals in the field of music;
- broadening and deepening the knowledge and understanding of music through research, teaching, creative activities, and publication; and
- enriching the lives of students and faculty as well as the community, state, nation, and the world with a variety of performances and publications.

The College of Music is an academic community committed to maintaining a climate of mutual respect and collegiality while showing appreciation for a diversity of musical cultures and individual backgrounds.

The widely varied functions of music in the world today present many challenging and interesting opportunities for teachers, performers, creative artists, technicians, and commercial personnel. While these different pursuits require specialized emphases, the faculty of the College of Music recognize the musical and educational experiences that are common to all. Therefore, each curriculum of the College of Music is designed to present music as an integrated whole. Solo performance and technique, ensemble performance, historical and theoretical studies, concert and recital opportunities, and elective courses both inside and outside the college are intended to give students a balanced approach to musical understanding and musicianship.

The college maintains a ratio of approximately one faculty member for every 10 students. This enables students to benefit from dynamic, personal interaction with their professors. The college also offers students regular academic advising to ensure that they complete their degrees without unnecessary delay.

In addition to training in the various professions of music, the college provides general music studies and activities for the non-major; broad cultural programs (concerts, recitals, lectures) for the university and Boulder communities; favorable conditions for research in music; and service activities to the state and nation.

The degrees bachelor of arts in music, bachelor of music, and bachelor of music education are granted by the university, upon recommendation of the faculty of the College of Music, to those who have successfully completed prescribed requirements.

Students must complete an online graduation application and schedule a final checkout appointment by December 15 for May/August graduation and by October 1 for December graduation.

Undergraduate Education in Music

The undergraduate degrees in music emphasize knowledge and awareness of:

- solo performance and technique, including the various musical styles used in compositions for students' musical instruments or voice;
- each composition performed, notation and editorial signs used in the compositions performed, and repertoire for the students' performance medium;
- ensemble performance, including familiarity with major composers in the student's performance medium and the techniques necessary to blend a number of individual musicians into an ensemble;
- concert and recital opportunities, including literature composed for different performance forces;
- theoretical studies, including tonal harmony, counterpoint, voice-leading, and notation; formal principles and analytical techniques for tonal music; and instruments in score, including the concert pitch of transposing instruments and nomenclature used in scores; and
- historical studies, including representative works in the canon of musical literature from chant to the present, the general outlines of the history of music from the Middle Ages to the present, music in the United States, and musical cultures other than those of Europe.

In addition, students completing any of the degrees in music are expected to acquire the ability to:

- perform solo and ensemble repertoire demonstrating musical artistry, technical proficiency, and stylistic understanding;
- demonstrate an understanding of theoretical studies, including sight-reading and ear training; and
- demonstrate an understanding of historical studies including the analysis of stylistic periods and music of non-Western cultures.

Graduate Degree in Music

All graduate degrees in music are granted by the Graduate School of the University of Colorado upon the recommendation of the faculty of the College of Music and approval by the administrative officers of the Graduate School. The information supplied here is supplemental to and must be read in conjunction with the information contained in the Graduate School section. Other information regarding rules applying to graduate degree students in music may be found online at music.colorado.edu/students/graduate/degrees.

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Academic Excellence

Dean's Honor Roll

A full-time undergraduate student in the College of Music who has completed at least 24 credit hours of course work by the end of the spring semester on the Boulder campus (excluding continuing education), and who earned a semester grade point average of at least 3.70, will be included in the college dean's honor roll for that semester. Notation of the "Dean's Honor Roll" is also listed in the Honors Convocation Program.

Honors at Graduation

Students achieving a cumulative GPA of 3.70–3.79 (honors), 3.80–3.89 (high honors), and 3.90–4.00 (highest honors) are recognized at commencement.

Scholarships and Awards

A number of scholarships and awards are designed specifically for students in the College of Music. Undergraduate music majors are eligible for scholarships or renewal of their scholarships as long as they make satisfactory musical progress in their major as determined by the faculty in jury exams and auditions, and maintain a minimum cumulative GPA of 3.00.

Graduate students must enroll as full-time students, maintaining a 3.00 GPA, and make adequate progress toward their degrees. The college offers approximately 70 graduate assistantships as well as graduate fellowships, and a variety of endowed scholarships for graduate students.

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Programs of Study & Degrees

The College of Music provides specialized training designed to prepare students for a variety of careers in music. The college offers three undergraduate degrees, two certificate programs, four graduate degrees, and three professional certificates.

Undergraduate degree programs include:

- [Bachelor of music \(BM\)](#)
- [Bachelor of arts \(BA\)](#)
- [Bachelor of music education \(BME\)](#)
- [Double degrees in music and an outside major](#)
- [Dual degree in music performance and music education](#)
- [Double major in music performance](#)

In addition, the college of music offers **undergraduate certificate programs** in:

- [Certificate in jazz studies](#)
- [Certificate in Music technology](#)

Graduate degrees include:

- [Master of music \(MM\)](#)
- [Master of music education \(MME\)](#)
- [Dual master's degree in music](#)
- [Doctor of musical arts \(DMA\)](#)
- [Doctor of philosophy \(PhD\)](#)

In addition, the college of music offers the following **professional certificates**:

- [Professional certificate in string quartet performance](#)
- [Professional certificate in opera and solo vocal performance](#)
- [Professional certificate in woodwind performance](#)

The course codes for these programs are MUEL, MUSC, PMUS, and TMUS.





Faculty: Music

| Name | Title | Education |
|-----------------------------|---|--|
| AAHOLM, Phillip | professor emeritus | |
| AUSTIN, James R. | associate dean for undergraduate studies, professor (music education) | BME, University of North Dakota; MAEd, PhD, University of Iowa |
| BAHN, Lina | assistant professor (violin) | BM, Juilliard School; MM, University of Michigan; DMA, Indiana University |
| BARBOSA, Eduardo | instructor (jazz bass) | |
| BEALL, Gretchen Hieronymous | professor emerita | |
| BERG, Margaret | associate professor (music education) | BS, Case Western Reserve University; BM, Cleveland Institute of Music; MME, University of Cincinnati; PhD, Northwestern University |
| BERNSTEIN, Giora | professor emeritus | |
| BIGGS, Dana | assistant director marching band (instructor) | BM, University of Kentucky, Lexington; MM, Eastern Kentucky University, Richmond; DMA, University of Kentucky, Lexington |
| BRODY, James | associate professor (oboe) | BM, Ohio State University; MM, Indiana University |
| BRUNS, Steven M. | associate dean for graduate studies, associate professor (theory/composition) | BME, Northern State College, Aberdeen, SD; MM, PhD, University of Wisconsin, Madison |
| CABALLERO, Carlo | associate professor (musicology) | BA, Pomona College; PhD, University of Pennsylvania |
| CARTHY, Nicholas | associate professor (opera) | Studies at the Guildhall School of Music and the Mozarteum Salzburg |
| CHANG, Phillip | instructor (music theory) | BA, Florida State University; MA, PhD, Eastman School of Music |
| CONLON, Joan Catoni | professor emerita | |
| COOPER, Peter | instructor (oboe) | BM, Northwestern University |
| COOPERSTOCK, Andrew | professor (piano) | BM, University of Cincinnati; MM, Juilliard School; DMA, Peabody Conservatory of Music |
| CORBUS, David | instructor (jazz guitar) | BM, New York University |
| CREMASCHI, Alejandro | associate professor (piano pedagogy) | BA, University of Maryland, Baltimore County; MM, DMA, University of Minnesota, Twin Cities |
| DAVIS, John | associate dean for administration; associate professor (jazz studies) | BA, Metropolitan State College; MM, University of Denver; DA, University of Northern Colorado |

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|---------------------|---|--|
| DRUMHELLER, John | instructor (theory/composition) | BME, Montana State University; MM, DMA, University of Colorado Boulder |
| DUNN, J. Michael | associate professor (tuba) | BS, Tennessee Technological University; MM, DMA, Arizona State University |
| EAKIN, Charles | professor emeritus | |
| ECKERT, Erika | associate professor (viola) | BM, Eastman School of Music |
| ELLSWORTH, Oliver | professor emeritus | |
| ENDO, Akira | professor emeritus | |
| ERHARD, Paul | associate professor (viola) | BM, Eastman School of Music; MM, DMA, Juilliard School |
| FARR, Elizabeth | professor (organ, harpsichord) | BM, Stetson University; MM, Juilliard School; DMA, University of Michigan |
| FINK, Robert | dean emeritus and professor emeritus | |
| GALM, John | professor emeritus | |
| GENTRY, Gregory | associate professor (choir) | BME, University of Denver; MM, DMA, University of Missouri, Kansas City |
| GLYDE, Judith | professor (cello) | BM, Hartt College of Music; MM, Manhattan School of Music |
| GONZALEZ, Luis | professor emeritus | |
| GOODE, Bradley M. | associate professor (jazz trumpet) | BM, University of Kentucky; MM, DePaul University |
| GRAHAM, Larry | professor emeritus | |
| GUNTHER, John | associate professor (jazz studies, saxophone) | BM, MA, Berklee College of Music; MA, University of Miami |
| HARBISON, Kevin | professional exempt (recording technology) | BM, Cleveland Institute of Music |
| HARRIMAN, Janet | instructor (harp) | BM, College of Wooster; MM, Cleveland Institute of Music |
| HATA, Kuniaki | professor emeritus | |
| HAYES, Deborah | professor emeritus | |
| HEIL, Leila | assistant professor (music education) | BM, Colorado State University; MM, Arizona State University; PhD, University of Colorado Boulder |
| HSU, Hsing Ay | instructor (artistic director, Pendulum: New Music at CU) | BM, Juilliard School of Music; MM, Yale School of Music |
| ISHIKAWA, Yoshiyuki | professor (bassoon) | BME, MM, Northwestern University; DMA, University of Michigan |
| ITASAKA, Mami | instructor (assistant director, Japanese ensemble) | BA, English literature, Komazawa University, Tokyo |
| JACKSON, Dennis | professor emeritus | |
| JENKINS, Jeff | instructor (jazz piano) | |
| JENNINGS, Christina | assistant professor (flute) | BM, MM, Juilliard School; DMA, Rice University |
| KEARNS, William | professor emeritus | |
| KEISTER, Jay | associate professor (ethnomusicology) | BA, California State University, Fullerton; MA, PhD, University of California, Los Angeles |

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|--------------------------|--|--|
| KELLOGG, Daniel | associate professor (composition) | BM, Curtis Institute of Music; MM, MMA, Yale School of Music |
| LASMAWAN, Imade | instructor (director, gamelan ensemble) | SMKar, Skar, Indonesian Traditional Performing Arts College |
| LEHNERT, Doris Pridonoff | professor (piano) | Attended University of Southern California, Juilliard School, and University of Connecticut |
| LEHNERT, Oswald | professor emeritus | |
| LEONG, Daphne | associate professor (theory) | BM, University of Saskatchewan; MA, MM, PhD, Eastman School of Music |
| LEWIS, Gary | director of orchestras; professor | BME, University of Oklahoma; MM, Texas Tech University |
| LUHRING, Alan | professor emeritus | |
| MALIN, Yonatin | assistant professor (theory) | BA, Harvard University; PhD, University of Chicago |
| MALOY, Rebecca | associate professor (musicology) | BM, University of Illinois, Champaign-Urbana; MM, PhD, Cincinatti College Conservatory of Music |
| MASON, Patrick | professor (voice) | BM, Peabody Conservatory of Music, MM, University of Nebraska at Lincoln |
| McCARTHY, Kevin | professor emeritus | |
| McDONALD, Margaret | assistant professor (collaborative piano) | BM, MM, University of Minnesota, Twin Cities |
| McMURRAY, Allan | director of bands; Robert and Judith Charles Professor (trumpet) | BA, California State University, Long Beach; MM, University of Wisconsin. Additional study, University of Michigan |
| MIRANDA, Martina | associate professor (music education) | BA, Trinity International University; MA, San Francisco State University; PhD, Musical Arts in Music Education, Arizona State University |
| MOTEKI, Mutsumi | associate professor (vocal coach, accompanist) | BA, Kunitachi College of Music; MM, Westminster Choir College; DM, University of Michigan |
| MUELLER, Ronald | senior instructor | |
| MYER, Tom | associate professor (saxophone) | BS, University of Wisconsin-LaCrosse; MM, North Texas State University |
| NGUYEN, Alexandra | assistant professor | BS, McGill University; DMA, MM, Eastman School of Music |
| NYTCH, Jeff | assistant professor (entrepreneurship center for music) | BA, Franklin and Marshall College; MA, DMA, Rice University |
| OKIGBO, Austin | assistant professor (musicology) | BPhil, Pontifical Urban University, Rome; MM, Westminster Choir College; PhD, Indiana University, Bloomington |
| PANN, Carter | associate professor (composition/theory) | BM, Eastern School of Music; MM, DMA, University of Michigan |
| PETERSON, Patti | associate professor (voice) | BM, Salem College; MM, DMA, University of Colorado Boulder |
| PINKOW, David | professor emeritus | |
| RICKELS, David B. | assistant professor (music education) | BM, MM, DMA, Arizona State University |
| RILS, Thomas | director, American Music Research Center; professor (musicology) | BA, Oberlin College; MA, PhD, University of Michigan |
| ROEDER, Matthew | assistant professor, associate director of bands | BM in Music Education, Miami University; MM, Music Education/Conducting, Peabody Conservatory of Johns Hopkins University; DMA (wind conducting), University of Colorado Boulder |
| ROMAINE, Paul | instructor (jazz, drum set) | BS, University of Colorado Denver |

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|--------------------------|---|---|
| ROMERO, Brenda | associate professor (musicology, ethnomusicology) | BM, MM, University of New Mexico; PhD, University of California, Los Angeles |
| SABLE, Barbara Kinsey | professor emerita | |
| SAWCHUK, Terry | associate professor (trumpet) | BM, MM, University of Michigan |
| SCOTT, F. Wayne | professor emeritus | |
| SHER, Daniel | dean; professor (piano) | BM, Oberlin College Conservatory of Music; MS, Juilliard School; EdD, Columbia University |
| SILVER, Daniel | associate professor (clarinet) | BM, Northwestern University; MM, University of Michigan |
| SMITH, Jeremy | associate professor (musicology) | BA, Washington College; MFA, University of California, Irvine; PhD, University of California, Santa Barbara |
| SPERA, Nicolás | instructor (classical guitar) | Artist Diploma, University of Denver; Additional studies at Conservatory of Aosta and Accademia Musicale Tema |
| SPILLMAN, Robert | professor emeritus | |
| STANLEY, William | associate professor (trombone) | BME, University of Kansas; MM, DMA, University of Illinois |
| THEODORE, Michael | associate professor (theory/composition) | BA, Amherst College; MM, Yale School of Music; PhD, University of California, San Diego |
| THORNTON, Michael | associate professor (horn) | BM, Temple University; additional studies at Manhattan School of Music and Juilliard School |
| TOENSING, Richard | professor emeritus | |
| WALTER, Douglas | professor (percussion) | BM, University of North Texas; MM, University of Michigan; DMA, Temple University |
| WATERS, Keith | professor (theory/composition) | BM, University of North Carolina, Greensboro; MM, New England Conservatory of Music; PhD, Eastman School of Music |
| WETHERBEE, Charles | assistant professor | BM, Curtis Institute of Music |
| WOLZIEN, Charles | professor emeritus | |
| ZEMLIAUSKAS, Christopher | instructor (vocal coach, accompanist) | BM, Ithaca College; MM, University of Minnesota |

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Minimum Academic Preparation Standards (MAPS)

One unit equals one year of high school study or one semester of college course work.

| Program in Environmental Design | College of Arts & Sciences / Journalism & Mass Communication Program | Leeds School of Business | College of Engineering & Applied Science | College of Music |
|--|--|--|--|---|
| English: 4 | English: 4 (includes 2 of composition) | English: 4 (includes 2 of composition) | English: 4 | English: 4 |
| Mathematics: 4 (includes at least 2 of algebra, 1 of geometry, and 1 of college preparatory math such as trigonometry, analytic geometry, or elementary functions) | Mathematics: 4 (includes at least 2 of algebra, 1 of geometry, and 1 of college preparatory math such as trigonometry, analytic geometry, or elementary functions) | Mathematics: 4 (includes at least 2 of algebra, 1 of geometry, and 1 of college preparatory math such as trigonometry, analytic geometry, or elementary functions) | Mathematics: 4 (includes at least 2 of algebra, 1 of geometry, and 1 of college preparatory math such as trigonometry, analytic geometry, or elementary functions) | Mathematics: 4 |
| Natural science: 3 (includes physics and/or biology) | Natural science: 3 (includes 2 of lab science, 1 of which must be either chemistry or physics) | Natural science: 3 (includes 2 of lab science, 1 of which must be either chemistry or physics) | Natural science: 3 (includes 2 of physics AND 1 of chemistry or biology; OR 2 of chemistry AND 1 of physics or biology; OR 2 of biology AND 1 of chemistry or physics; OR 1 of physics AND 1 of chemistry or biology AND 1 of another science) | Natural science: 3 |
| Social science: 3 | Social science: 3 (includes 1 of U.S. or world history and 1 of geography; if U.S. history is used to meet the history requirement, the geography requirement may be met with 1/2 unit of geography) | Social science: 3 (includes 1 of U.S. or world history and 1 of geography; if U.S. history is used to meet the history requirement, the geography requirement may be met with 1/2 unit of geography) | Social science: 3 | Social science: 2 |
| Single foreign language: 2 | Single foreign language: 3 | Single foreign language: 3 | Single foreign language: 3 (or 2 units in each of 2 separate foreign languages) | Single foreign language: 2 |
| Academic elective: 1 | | | | Academic elective: 2 (in the arts) |
| Total units: 17 | Total units: 17 | Total units: 17 | Total units: 17 | Total units: 17 |





Admission & Enrollment Policies

On This Page:

- [Application Procedures](#)
- [Admission Requirements](#)
- [Graduate School Advising](#)
- [Credit Policies](#)
- [Registration](#)
- [Withdrawal](#)

Application Procedures

Students seeking admission to a CU-Boulder master's or doctoral program apply directly to the appropriate department, not the Graduate School. An applicant for admission must present complete application materials that include:

1. Complete the graduate application, available online at admissions.colorado.edu/graduate.
2. One official transcript of all academic work completed to date.
3. A non-refundable application fee. The fee is currently \$50 for domestic applicants and \$70 for international applicants. The fee may be paid by credit card, electronic check, check, or money order.
4. Three or four letters of recommendation. Please check with your program to obtain the required number of recommendations needed.
5. Test scores and other materials as required by specific departments.

A completed application must be in the major department by the published deadline for the term for which admission is sought. Most departments have an application deadline that is several months before the start of the desired admission term. Qualified applicants may find that their application cannot be processed for a specific term if enrollment levels have been reached.

Admission Requirements

A graduate student may be admitted to CU-Boulder as either a regular degree student or a provisional degree student.

Regular Degree Students

Qualified students may be recommended for admission to regular degree status by approved programs of the Graduate School provided they meet the following criteria:

1. They hold a baccalaureate degree from an accredited college or university or have done work equivalent to that required for such a degree.
2. They show promise of ability to pursue advanced study and research, as judged by their scholastic record.
3. They have had adequate preparation to enter graduate study in the chosen field.
4. They have at least a 2.75 (on a 4.00 scale) undergraduate GPA (for engineering, 3.00). (Note: Applicants who cannot meet criterion 4 may still secure regular admission if they have completed 9 semester hours of relevant graduate course work with at least a 3.25 average.)
5. They meet additional requirements for admission established by the major department.

Provisional Degree Students

Students who do not meet the requirements for admission as regular degree students may be recommended for provisional degree status by their major department. With the concurrence of the dean of the Graduate School, these students are admitted for a probationary term of either one or two semesters of full-time study (or the equivalent for part-time students). At the end of the

specified probationary period, provisional degree students must be either admitted to regular degree status or dismissed from the graduate program. Provisional students are subject to the same standards of performance required of regular degree students, plus any other requirements imposed by the program faculty as conditions of admission.

Credit earned by persons in provisional degree status may count toward a degree at CU-Boulder.

To meet the standard terms of provisional admission, the student must generally complete 12 hours in two semesters (or equivalent for part-time students) with a 3.00 cumulative GPA. Program faculty may recommend additional or alternative conditions as appropriate.

Admission to a Concurrent Bachelor's/Master's Degree Program

A number of CU-Boulder departments offer concurrent bachelor's/master's degrees, which enable CU undergraduate students to pursue undergraduate and graduate programs simultaneously and to receive both degrees in a shorter time period than it would take to pursue them separately.

Highly qualified undergraduate students may be recommended for admission to a concurrent bachelor's/master's degree program at the end of their sophomore year or the beginning of their junior year. Such students are not formally admitted to the Graduate School. Standards for admission as well as eligibility to remain in the program are specified in each department's program guide.

Admission to a Dual Degree Program

The Graduate School, in conjunction with the faculty of each department and the deans of schools and colleges where appropriate, approves dual degree programs that combine previously approved graduate degree programs in two areas or departments.

Qualified graduate students may be recommended for admission to an approved dual degree program upon meeting the qualifications of each graduate program and any special qualifications as outlined by each program's approved guidelines. Minimum standards and qualifications for admission and continuation may be found in each department's approved program guide. Students wishing to complete degrees in more than one department that have no approved dual degree program or interdisciplinary major combination must complete all the requirements for both degrees with no shared or overlapping course work.

Admission of Seniors

A CU-Boulder senior who is not pursuing the concurrent bachelor's/master's degree, but who has satisfied the undergraduate residence requirement and does not need more than 6 semester hours of advanced subjects to meet the requirements for a bachelor's degree, may be admitted to the Graduate School. Students who just wish to take a graduate-level class will need the instructor's signature in a "special action form" obtained from the department.

Admission of Nondegree Students to Regular Degree Status

Students with nondegree status who wish to apply for regular student status must complete their application for admission before completing 9 semester hours as nondegree students at CU-Boulder.

Admission of Former and Suspended Students

Students who were previously admitted to a graduate degree program but who did not complete that degree and who have not been continuously registered at CU-Boulder must complete the following steps before being readmitted:

1. Clarify their status with the department to determine their eligibility to return and pursue the same degree.
2. Submit an application to the department (departmental approval is required) before enrollment levels are met or deadlines passed for the term in which they expect to return to CU-Boulder.

A regular degree student who is dismissed for failure to maintain a 3.00 grade point average is eligible to apply for readmission after one year. Approval or rejection of this application rests jointly with the student's major department and the dean of the Graduate School. The final decision will be made by the dean based on the recommendations of the department.

Students Transferring from Other CU Campuses

Students transferring from another CU campus to CU-Boulder must apply to and be accepted by the Boulder campus.

Students Changing Major Departments

Students who want to change major departments must apply to and be accepted by the new department. When adding a second major in an approved interdisciplinary major combination, this must be noted on the application.

Admission of Faculty Members

No member of the faculty above the rank of instructor may be working toward an advanced degree from CU-Boulder.

Graduate School Advising

Graduate School advisors provide information and guidance to students and staff on issues including:

- general Graduate School information, policies, and rules
- requirements for degrees that apply to all students
- exceptions to requirements
- registration requirements
- theses and dissertation format guidelines and submissions info
- graduation requirements and deadlines

For general inquiries, contact Graduate Student Services at gradinfo@colorado.edu or call **303-492-8220**.

Credit Policies

Transfer Credit

Transfer credits from accredited institutions are accepted by CU-Boulder only after approval by the department chair/program director and the dean of the Graduate School, and under conditions outlined below. Transfer credit is defined as any credit earned at another accredited institution, credits earned on another campus of the CU system, or credits earned as a nondegree student within the CU system. Students seeking a degree from CU-Boulder must complete the majority of their course work while enrolled as degree-seeking students.

The following rules apply to transferring credit to CU-Boulder graduate programs:

- The maximum amount of work that may be transferred to CU-Boulder depends upon the graduate degree sought (individual departments may have more restrictive limits).

Degree and Semester Credit Hours

MA, ME, MS, MMus, or MMusEd—9

MFA—18

DMA, PhD, or AuD—21

AuD students with MA and audiology certification—30

- Work already applied toward a graduate degree received from CU-Boulder or another institution cannot be accepted for transfer toward another graduate degree of the same level at CU-Boulder. In addition, work completed for a doctoral degree may not be applied toward a subsequent master's degree. Extension work completed at another institution cannot be transferred, and correspondence work, except to make up deficiencies, is not recognized.
- All courses accepted for transfer must be graduate-level courses. A course in which a grade of *B-* or lower was received will not be accepted for transfer. Transfer course work that is to be applied to a graduate degree at CU-Boulder and was completed more than five years prior to being accepted to the program will be evaluated by the major department as to current relevance and applicability to the degree requirements. At the discretion of the department, a student may be asked to validate transfer credits prior to approval.
- Credit may not be transferred until the student has completed 6 credits of graduate course work as a regular, degree-seeking student at the Boulder campus with a 3.00 GPA. Transferred credits do not reduce the minimum registration requirement, but may reduce the amount of work to be done in formal courses.
- Excess undergraduate credits from another institution may not be transferred to the CU-Boulder Graduate School.

Graduate Credit for CU-Boulder Seniors

With the exception of students enrolled in a concurrent bachelor's/master's degree program, seniors at CU-Boulder may earn graduate credit for a limited amount of graduate-level work (up to 9 semester hours), provided such work is completed with a grade of *B* or above in course work at CU-Boulder; comes within the five-year course time limit; has not been applied toward another degree; and is recommended for transfer by the department concerned, and such transfer is approved by the dean of the Graduate School.

Registration

Registration procedures are sent to new graduate students when they confirm their intent to enroll. Please refer to Registration in the General Information section for further information.

Late registration is held only if enrollment levels have not been reached. Graduate students (including candidates for degrees and students taking only thesis hours) who fail to complete registration and pay fees during regular registration may be charged a late registration fee.

Concurrent Registration

Boulder campus students unable to obtain courses required for their degree program on the Boulder campus may register for up to two courses or 6 credit hours, whichever is greater, on another University of Colorado campus. The course work must be required for their degree program; they must have their dean's permission; they must be enrolled for at least one course on the Boulder campus; and enrollment levels must not have been reached on the other campus. Contact the Office of the Registrar for additional information.

Reciprocal Exchange Agreement Program

Reciprocal registration enables University of Colorado graduate students to attend classes at other Colorado institutions, including Colorado School of Mines, Colorado State University, and the University of Northern Colorado. For more information, contact the Office of the Registrar.

Withdrawal

A graduate student who desires to withdraw from the university should go to Regent Administrative Center 125 for a withdrawal interview. A student who discontinues attendance in a course without officially withdrawing is marked as having failed that course. Except under extreme circumstances, graduate students are not permitted to withdraw after the last day of classes.

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ARSC-1000 (3-4) Expository Writing

Develops college-level reading, writing, and thinking. Students are asked to read critically, then construct written responses that are revised and crafted into more formal essays and position papers. Offered through the Student Academic Services Center. Prereq., program coordinator consent required.

[College of Arts & Sciences](#)
[Arts & Sciences Admin](#)
[Writing](#)

ASTR-1000 (3) The Solar System

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and the origin of life. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory and Fiske Planetarium. Similar to ASTR 1010, without lab. Also similar to ASTR 1030. Formerly ASTR 1110. Students may receive credit for only one of ASTR 1000, 1110, 1010, or 1030. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Astrophysical & Planetary Sciences](#)

COMR-1000 (1) Communication and Community

Introduction to how communication builds community by creating and sharing meaning. Examination of communication practices at the interpersonal level (friends and family), the group level (teams, classrooms and organizations) and the societal level (citizenship, social change, mass media). Restricted to students in the Communication Residential Academic Program.

[College of Arts & Sciences](#)
[Communication Residential Academic Program](#)

CSVC-1000 (1) Work Internship

a one credit pass/fail course, opened to students in good academic standing, whose internship employers require that they receive course credit. The student must first seek to obtain academic credit through their major department. Will not count toward degree requirements in any UCB school or college. No appeals for credit toward degrees or for letter grades in the course will be entertained.

College of Arts & Sciences | Career Services

DNCE-1000 (2) Beginning Technique

Introduces basic concepts and skills of various contemporary dance forms, such as Afro-modern, Release Technique, Limon-based modern, etc. Classwork develops muscle strength, flexibility, coordination, rhythm, and dynamic and spatial awareness. Lectures focus on various aspects of dance including history, composition, anatomy and criticism. Limited amount of written work is required. May be repeated up to 4 credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

ENVS-1000 (4) Introduction to Environmental Studies

Surveys environmental studies, examining ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on Earth. Required for ENVS majors. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Environmental Studies

FARR-1000 (1) Farrand Service-Learning Practicum: Special Topics

Offers a varying service-learning practicum experience as corequisite to a service-learning lecture course. May be repeated up to 6 total credit hours, provided the practica are different. Graded pass/fail.

College of Arts & Sciences | Farrand Residential Academic Program

GSAP-1000 (3) World Politics and Society

Explores the history leading up to-and away from-the attacks of 9/11 within an American framework. Topics to be covered include: America's relationship with key countries since 1945; the rise of Muslim extremism; modern terrorism and its meaning; the importance of oil; and the events of 9/11 and the Bush Administration's response to it, at home and abroad. Restricted to G-RAP students.

College of Arts & Sciences | Global Studies Residential Academic Program

IAFS-1000 (4) Global Issues and International Affairs

Introduces the student to the international affairs program. The course examines political and economic development in several countries in many different world regions. Examines historical trends and development as well as current political and economic issues. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to International Affairs (IAFS), Political Science (PSCI), Anthropology (ANTH), Economics (ECON), History (HIST), Geography (GEOG) or College of Arts and Sciences Open Option (XXAS) majors only.

College of Arts & Sciences | International Affairs

INVS-1000 (4) Responding to Social and Environmental Problems Through Service Learning

By integrating theory with required community service, students explore how problems are shaped by cultural values and how alternative value paradigms affect the definition of problems in areas such as education and the environment. Students examine different approaches to solving problems and begin to envision new possibilities. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | INVST Community Studies

LDSP-1000 (3) The Foundations of 21st Century Leadership

Introduces students to the critical need for and approaches to the practice of creative and effective leadership. Premised on the idea that the potential for leadership is present in all of us. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Chancellor Leaderships Residential Academic Program

LING-1000 (3) Language in U.S. Society

Nontechnical exploration of the ways that language is used in America. Emphasizes language as a social institution and how values and goals of both public institutions and private groups shape and are shaped by language and its use. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or contemporary societies.

College of Arts & Sciences | Linguistics

PHIL-1000 (3) Introduction to Philosophy

Introduces fundamental topics of philosophy, e.g., knowledge, truth, universals, self, the mind-body problem, time, God, and value. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

PHYS-1000 (3) Preparatory Physics

Introduces basic physics, emphasizing an analytical approach to prepare for PHYS 1110/1120, the engineering majors sequence. This course does not satisfy any MAPS deficiency in either the sciences or math. Prereq., 1 year high school algebra or equivalent.

College of Arts & Sciences | Physics

SPAN-1000 (3) Cultural Difference through Hispanic Literature

For freshmen only. Organized around the general topic of cultural differences. Focuses on a related issue such as gender or history articulated in the literature of Spain, Latin America, and the Hispanic United States. Taught in English; students read selected literary texts in English from the various traditions. Does not count towards the Spanish major. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

College of Arts & Sciences | Spanish | Spanish

ENGL-1001 (3) Freshman Writing Seminar

Provides training and practice in writing. Focuses on the writing process, the fundamentals of composition, and the structure of argument. Provides numerous and varied assignments with opportunity for revision. Prereqs., College of Arts and Sciences freshman or sophomore standing. Not open to business or engineering majors. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: lower-division written communication. Prerequisites: Not open to Engineering or Business majors.

College of Arts & Sciences | English | Undergraduate Writing

GEOG-1001 (4) Environmental Systems 1---Climate and Vegetation

MLect. and lab. Introduces the atmospheric environment of the Earth: elements and controls of climate and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geography | Physical Geography

HONR-1001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of an organized lecture course. Designed typically for 15 students, coseminars are taken for an additional 1 credit hour. Coseminars provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity. May be repeated up to 4 total credit hours. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

College of Arts & Sciences | Honors

PSYC-1001 (3-4) General Psychology

Surveys major topics in psychology: perceptions, development, personality, learning and memory, and biological bases of behavior. Students may participate as subjects for several hours in ongoing research. Meets MAPS requirement for social science: general.

College of Arts & Sciences | Psychology | General

SOCY-1001 (3) Introduction to Sociology

Examines basic sociological ideas including social relations, social interaction, social structure, and social change. Examples are drawn from societies around the world. Meets MAPS requirement for social science: general. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Sociology | General Sociology

ARTS-1002 (3) Beginning Drawing 1

In this studio course the formal visual elements are presented through a study of spatial relationships. The course is built around a series of related problems, each of which is designed to develop fluency in drawing, offer experience in handling media, foster self-confidence, and promote an understanding of the visual elements and their role in the development of pictorial space. Prereqs., ARTS 1010, 1020, and 1030.

College of Arts & Sciences | Art & Art History | Painting/Drawing

FILM-1002 (3) Film Analysis for Non-Majors

Introduces the critical study of film, exploring theoretical, historical, and technical concerns while presenting a survey of important film periods and genres. Students will hone critical-thinking, close-analysis, and writing skills. The course will cover a wide variety of films, approaching them from numerous perspectives, considering both the effects films have on individual viewers and their ability to reflect culture.

College of Arts & Sciences | Film Studies | Genre and Movements

ARTS-1003 (3) Printmaking for Non-Majors

Emphasizes processes involved with both nonmultiple and multiple methods, including but not limited to metal plate etching (intaglio), lithography, collagraph, woodcut, linoleum cut, Xerox transfer, and monotype. Places equal emphases on developing drawing skills and understanding design principles.

College of Arts & Sciences | Art & Art History | Printmaking

FARR-1003 (1) Banned Books and the First Amendment

Focuses on a heated topic of discussion since the Constitution was drafted: the censorship of books. This class will look at some classics in literature: Catcher in the Rye, The Color Purple, and Huck Finn, and will explore the questions of why they were controversial and whether censorship of books is ever justified. Graded pass/fail.

College of Arts & Sciences | Farrand Residential Academic Program

THTR-1003 (3) Acting for Nonmajors

Teaches the basic principles of acting for those with no previous acting experience, focusing on relaxation, concentration, improvisation, use of imagination, actions, objectives, initial monologue

and scene work, and basic terms and concepts of process work for the actor.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Performance](#)

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ASEN-1000 (1) Introduction to Aerospace Engineering Sciences

Introduces aerospace history, curriculum, ethics, and the many areas of emphasis within aerospace engineering. Academic and industry speakers are invited to address various aerospace topics. Prerequisites: Restricted to students with 0-26 credits (Freshmen) Aerospace Engineering (ASEN) or Engineering Open Option majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

CHEN-1000 (3) Creative Technology

Lect. Introduces undergraduate arts and sciences students to the most recent concepts in technology and how these concepts impact all aspects of life, such as health, the health of the planet, and social structures. Engineering students should consult an advisor before registering for this course. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to non-Engineering majors only.

[College of Engineering & Applied Science](#) [Chemical Engineering](#)

CSCI-1000 (1) Computer Science as a Field of Work and Study

Introduces curriculum, learning techniques, time management and career opportunities in Computer Science. Includes presentations from alumni and others with relevant educational and professional experience.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

EVEN-1000 (1) Introduction to Environmental Engineering

Introduces students to environmental engineering as an academic major and a career. Covers air quality, aquatic ecology, chemical processing, energy, site remediation, and water resources and

treatment. Includes reading and writing on the history of environmental engineering, major environmental issues, and professional ethics.

College of Engineering & Applied Science | Environmental Engineering

MCEN-1000 (1) Freshmen Seminar

Lect. and lab. Introduces facets of mechanical engineering including history of the profession, mechanical engineering curriculum, industries in which mechanical engineers practice, and expectations and tools for academic success. Students participate in hands-on experiences, visit industry, make oral presentations, meet faculty and practicing professionals, and develop goal statements. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

College of Engineering & Applied Science | Mechanical Engineering | Math

HUEN-1010 (3) Introduction to the Humanities

Explores a wide variety of challenging and interesting humanistic themes (love, responsibility, ambition, etc.) in many forms (fiction, philosophy, plays, poetry, art, music, etc.). In small discussion-based classes, emphasizes the writing, public speaking and critical thinking skills needed to excel as a professional engineer. Fulfills College of Engineering writing requirement for first-year freshmen only. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

College of Engineering & Applied Science | Humanities for Engineers

MCEN-1025 (4) Computer-Aided Design and Fabrication

Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping. Restricted to MCEN majors. Prerequisites: Restricted to Mechanical Engineering or Engineering Physics majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

AREN-1027 (3) Engineering Drawing

Introduces engineering drawing including sections and dimensioning, print readings, and computer 3D modeling. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Engineering Physics (EPEN), Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

AREN-1037 (3) Building Information Modeling

Learn to develop and communicate physical information using three-dimensional graphical systems including Computer-Aided Design (CAD) and Building Information Models (BIM). Learn to dimension and scale physical systems and interpret scaled drawings. Get experience with industry standard software tools (REVIT) used to produce design and construction documents, and apply BIM and CAD tools in a project producing scaled 3-D drawings.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

ECEN-1100 (1) Freshman Seminar

Introduces students to areas of emphasis with the ECE department through seminars presented by faculty and outside speakers. Emphasizes career opportunities, professional ethics and practices, history of the profession, and resources for academic success. Several sessions promote team building and problem solving, and provide opportunities for freshmen to meet their classmates. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

GEEN-1100 (3) Social Impact of Technology

Introduces undergraduate students to the social impact of technology and how technology impacts all aspects of life, the health of planet Earth, and how people interact with each other. Fulfills Engineering social science requirements. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

EHON-1151 (3) Critical Encounters

Explores critical, literary and philosophical approaches to the following related problems: 1) how we organize knowledge and construct meaning, and 2) how we locate a sense of self as both individuals and members of various groups amidst the resources and demands of competing interpretations, traditions challenges and circumstances. Prereq., honors standing or instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

MCEN-1208 (1-4) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 1208-1298. Prereq., instructor consent. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

CHEN-1211 (3) General Chemistry for Engineers

Lect. a one-semester course designed to meet the general chemistry requirement for engineering students. Topics include stoichiometry; thermodynamics; gases, liquids, and solids; equilibrium; acids and bases; bonding concepts; kinetics; reactions; and materials science. Examples and problems illustrate the application of chemistry to engineering subdisciplines. Restricted to students with one year of high school chemistry or CHEM 1001 or 1021 (min. grade C-); and high school algebra. Not recommended for students with grades below B- in CHEM 1001 or 1021. Credit not granted for this course and CHEM 1111, 1113/1114, 1251, or 1351. Prerequisites: Requires co-requisite course of CHEM 1221. Restricted to College of Engineering Majors only.

College of Engineering & Applied Science | Chemical Engineering

CSCI-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating

objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as ATLS 1220.

College of Engineering & Applied Science Computer Science General Computer Science

GEEN-1235 (4) Pre-Calculus for Engineers

Prepares students for the challenging content and pace of the calculus sequence required for all engineering majors. The course covers algebra, trigonometry and selected topics in analytical geometry. It prepares students for the calculus courses offered for engineering students. It requires students to engage in rigorous work sessions as they review topics that they must be comfortable with to pursue engineering course work. The course is structured to accustom students to the pace and culture of learning encountered in engineering math courses.

College of Engineering & Applied Science Engineering Administration

CSCI-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as ATLS 1240.

College of Engineering & Applied Science Computer Science General Computer Science

CHEN-1300 (1) Introduction to Chemical Engineering

Meets for one lecture per week. Introduces chemical engineering emphasizing history of the profession, curriculum, chemical industry, and industrial chemistry. Includes industry visits, oral presentations, faculty and professional meetings, and development of a goals statement. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

College of Engineering & Applied Science Chemical Engineering

CSCI-1300 (4) Computer Science 1: Programming

Teaches techniques for writing computer programs in higher level programming languages to solve problems of interest in a range of application domains.

College of Engineering & Applied Science Computer Science General Computer Science

GEEN-1300 (3) Introduction to Engineering Computing

Introduces the use of computers in engineering problem solving, including elementary numerical methods. Teaches programming fundamentals, including data and algorithm structure, and modular programming. Software vehicles include Excel/Vba and Matlab. Coreq., APPM 1350 or equivalent. Restricted to ENGR majors. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Engineering Administration

AREN-1316 (2) Introduction to Architectural Engineering

Surveys the broad subject of architectural engineering and professional practices. Includes professional design services, design documents, methods of construction delivery, materials for construction, codes and standards, life safety, professional ethics, structural systems, mechanical systems, electrical systems, and building systems integration. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-1317 (2) Introduction to Civil and Environmental Engineering

Surveys the broad subject of civil and environmental engineering and professional practice. Includes the subdisciplines of structures, water resources, geotechnics, transportation, environment, and construction. Discusses professional ethics, important skills for engineers, and the engineering design process as it fulfills multiple objectives.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

GEEN-1350 (1) Calculus 1 Work Group

Provides problem-solving assistance to students enrolled in APPM 1350. Student groups work in collaborative learning environment. Student participation is essential. Grading under pass/fail option only. Coreq., APPM 1350.

College of Engineering & Applied Science | Engineering Administration

GEEN-1360 (1) Calculus 2 Work Group

Provides problem solving assistance for students enrolled in APPM 1360. Conducted in a collaborative learning environment. Student work groups solve calculus problems with assistance of facilitator. Grading under pass/fail option only. Prereq., APPM 1350. Coreq., APPM 1360.

College of Engineering & Applied Science | Engineering Administration

ASEN-1400 (3) Gateway to Space

Introduces the basics of atmosphere and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Formerly ASEN 2500. Same as ASTR 2500. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

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MUEL-1081 (3) Basic Music Theory

Introduction to music notation, meter and rhythm, scales, intervals, triads, seventh chords, fundamentals of harmonic progression, voice leading, aural skills, and composition. For nonmusic majors who have little or no previous background in the subject. Formerly EMUS 1081. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-1081 (3) Intensive Music Theory

Introduces tools used in notating, performing, creating, and listening to music. Coreq., MUSC 1121. Open to music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-1101 (2) Semester 1 Theory

Introduces the fundamentals of diatonic harmony and voice leading, focusing on four-voice writing and analysis of excerpts from music literature. For music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

PMUS-1105 (1) Keyboard Musicianship 1

Introduces the keyboard, music reading in the treble and bass clefs, basic theory and keyboard harmony, technical patterns, and improvisation. Studies easy classical and pop repertoire. May be repeated up to 12 total credit hours. Restricted to music majors with no keyboard experience or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard Musicianship

MUSC-1111 (2) Semester 2 Theory

Continuation of MUSC 1101. Covers principles of harmony and voice leading, using all common diatonic triads and seventh chords. Introduces secondary dominants, modulation, contrapuntal chord functions, and elementary structural analysis of excerpts from music literature. Prereq., MUSC 1101. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1101 or 1081. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUEL-1115 (1) Piano Class 1

Introduces the keyboard and music reading for nonmusic majors with no prior keyboard experience. Studies very easy classical and pop repertoire. Prereq., no prior keyboard experience or instructor consent. Formerly EMUS 1115. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-1121 (1) Aural Skills Lab, Semester 1

Focuses on sight singing, rhythm, and dictation of diatonic melodies in major and minor keys (treble, alto, and bass clefs). Covers identification of scale types, intervals, triads, and dominant seventh chords. Studies harmonic dictation using chords from MUSC 1101. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUEL-1125 (1) Piano Class II

Continuation of MUEL 1115. Focuses on development of music reading. Studies technical patterns, easy classical and pop repertoire, and improvisation. Prereq., MUEL 1115. Restricted to non-College of Music majors only. Formerly EMUS 1125. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-1131 (1) Aural Skills Lab, Semester 2

Acquaints students with sight singing in major and minor keys (treble, alto, tenor, and bass clefs). Includes dictation of one- and two-voice examples. Studies harmonic dictation using vocabulary from MUSC 1111. Considers detection of pitch and rhythm errors in performed examples. Prereq., MUSC 1121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1121. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUEL-1145 (2-4) Guitar Class

A systematic study of the beginning literature and technique of the classical guitar with an emphasis on reading music. Designed for nonmusic majors with no prior musical experience. Restricted to non-College of Music majors only. Formerly EMUS 1145. Prerequisites: Restricted to non-College of Music majors only.

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| College of Music | Elective Music |
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MUEL-1155 (2) Intermediate Guitar

Studies the intermediate literature and technique of the classical and popular guitar. Emphasis on reading standard notation and chord charts. Designed for non- music majors. May be repeated up to 6 total credit hours. Prereq., MUEL 1145 or instructor consent. Restricted to non-College of Music majors only. Formerly EMUS 1155. Prerequisites: Restricted to non-College of Music majors only.

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| College of Music | Elective Music |
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MUEL-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated upto 6 total credit hours. Recommended prereq., ability to read music. Formerly EMUS 1184. Prerequisites: Restricted to non-College of Music majors only.

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| College of Music | Elective Music |
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PMUS-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated up to 6 total credit hours. Restricted to MUSC majors. Prerequisites: Restricted to College of Music undergraduate students only.

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| College of Music | Music | Voice |
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PMUS-1205 (1) Keyboard-Musicianship 2

Prerequisites: Restricted to College of Music undergraduate students only.

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| College of Music | Music | Keyboard Musicianship |
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EMUS-1217 (1) University Singers

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| College of Music | Music Ensembles |
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EMUS-1227 (1) University Choir

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomores) only.

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| College of Music | Music Ensembles |
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EMUS-1237 (1) Women's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1247 (1) Men's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1257 (1) Collegiate Chorale

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1267 (1) Choirs/Festival

College of Music | Music Ensembles

EMUS-1277 (1) Court Players

College of Music | Music Ensembles

EMUS-1287 (1) Marching Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1297 (1) Wind Symphony

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1307 (1) Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1317 (1) Campus Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

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Courses

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AIRR-1010 (1) Foundations of the United States Air Force 1

One 1-hour lecture and one 2-hour lab per week. Introduces students to the U.S. Air Force and the USAF officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officership qualities, and military customs and courtesies. Emphasizes the communication skills necessary for an Air Force officer.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

NAVR-1010 (2) Introduction to Naval Science

Introduces the structure, missions, and functions of the United States Navy and Marine Corps. Also covers military law, leadership, naval history, and concepts of sea power.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Naval Science](#)

MILR-1011 (2) Adventures in Leadership 1

Introduces fundamentals of leadership and the United States Army. Examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. Includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Military Science \(U.S. Army\)](#)

AIRR-1020 (1) Foundations of the United States Air Force 2

A continuation of AIRR 1010-1. One 1-hour lecture and one 2-hour lab per week.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

MILR-1021 (2) Adventures in Leadership 2

Continues the investigation of leadership in small organizations. Covers selected topics such as basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. Introduces students to effective military writing styles.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

ATLS-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as CSCI 1220.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as CSCI 1240.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-1710 (3) Tools and Methods for Engineering Computing

Designed for students with little or no programming background. Students learn procedural and object-oriented programming through development of games, simulations, and animations using Flash/Actionscript, VB/Excel, Java, MATLAB, and real-world applications. Activities are oriented toward smaller projects that address topics in beginning science, engineering, and mathematics courses. Students gain practical, applicable skills. Same as APPM 1710.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

PRLC-1810 (3) Ethical Leadership

Introduces fundamental principles of leadership and ethics. Emphasizes application of the principles for self-development and organizational effectiveness. Approved for arts and sciences core curriculum: ideals and values.

Cross College Programs | Leadership Residential Academic Program

PRLC-1820 (3) Community Issues in Leadership

Explores challenges to leadership at the community level such as drug abuse, poverty, decline of infrastructure, care of the aged, etc. Gives particular attention to the development of effective leadership responses to community difficulties at university, city, state, and national levels. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

Cross College Programs | Leadership Residential Academic Program

ATLS-2000 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

AIRR-2010 (1) The Evolution of USAF Air and Space Power 1

One 1-hour lecture and one 2-hour lab per week. Studies air power from balloons and dirigibles through the jet age and historically reviews air power employment in military and nonmilitary operations in support of national objectives. Looks at the evolution of air power concepts and doctrine and introduces the development of communicative skills.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

AIRR-2020 (1) The Evolution of USAF Air and Space Power 2

a continuation of Airr 2010. One 1-hour lecture and one 2-hour lab per week.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

NAVR-2020 (3) Seapower and Maritime Affairs

Studies the importance of seapower in history including naval, maritime, and other commercial uses of the sea. Emphasizes significant milestones in the history of the U.S. Navy and Marine Corps and their role in the national strategies and policies of the United States.

Cross College Programs | Reserve Office Training Corp | Naval Science

MILR-2031 (3) Methods of Leadership and Management 1

Comprehensively reviews advanced leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

ATLS-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ENGL 2036.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

MILR-2041 (3) Methods of Leadership and Management 2

Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continue to refine communication skills.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

PRLC-2810 (3) Global Issues in Leadership

Examines the challenges of leadership posed by change and major global issues affecting everyone. Explores issues such as human rights, hunger, disease, large-scale collective violence, and environmental deterioration with a special emphasis on effective, long-term leadership strategies.

Cross College Programs | Leadership Residential Academic Program

PRLC-2820 (3) Multilevel Issues in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with a special emphasis on leadership and ethical implications. Same as LDSP 2820.

Cross College Programs | Leadership Residential Academic Program

PRLC-2930 (3) Leadership Internship

Students analyze the leadership styles within a host organization, examine how successfully an organization fulfills its mission, and further refine their own theories of what constitutes effective leadership. Students also complete a meaningful project over the course of the internship. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

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| Cross College Programs | Leadership Residential Academic Program |
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AIRR-3010 (3) Air Force Leadership Studies I

Two 1 1/2-hour seminars plus one 2-hour lab per week. Provides an integrated management course emphasizing concepts and skills required by the successful manager and leader. Includes individual motivational and behavioral processes, leadership, communication, and group dynamics while providing foundation for the development of the junior officer's professional skills (officership). Emphasizes decision making and use of analytic aids in planning, organizing and controlling in a changing environment. Discusses organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics within the context of military organization. Uses actual Air Force case studies throughout the course to enhance the learning and communication process.

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| Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies |
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ATLS-3010 (3) Digital Media 1

Introduces techniques, software, and related concepts of digital design and image making through individual and group projects. Emphasizes digital animation, digital audio, digital video and website design and development as a means to formal and expressive ends. Introduces students to critical readings and theories related to digital media practice. May be repeated up to 6 total credit hours. Prereq., ATLS 2000. Restricted to TAM students.

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| Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS) |
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AIRR-3020 (3) Air Force Leadership Studies II

Two 1 1/2-hour seminars and one 2-hour lab per week. Continuation of AIRR 3010. Emphasizes basic managerial processes while employing group discussions, case studies, and role playing as learning devices. Continues to emphasize the development of communicative skills.

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| Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies |
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ATLS-3020 (3) Digital Media 2

A continuation of Digital Media 1 (ATLS 3010), this course introduces students to advanced digital media development including interactive programming, scripting, and database functionality. Emphasizes a historical and conceptual understanding of programming and computational theories. May be repeated for a total of 6 credit hours. Prereq., ATLS 2000 and ATLS 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

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| Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS) |
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NAVR-3020 (3) Naval Operations and Seamanship

Examines the Inland and International Rules of the Nautical Road, including court interpretations, principles of relative motion and vector analysis with the maneuvering board, ship handling procedures, weather, communications, tactical operations, and maritime law.

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JOUR-1001 (3) Contemporary Media Analysis

An introduction to the role of media in contemporary society, focusing on the cultural, political, economic, and historical context within which print and media technologies developed and how audiences interact with and influence the use of media. Restricted to Journalism & Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-1871 (1-3) Special Topics for First-Year Students

Special studies in media that are specific for first-year students. May be repeated for a maximum of three credit hours.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-2011 (3) Media and Public Culture

Introduces the rise and development of mediated communication and its impact on and role within the formation of modern culture and public life. Restricted to JOUR majors.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-2403 (3) Principles of Advertising and Consumer Culture

Explores creative and strategic thinking plus the nature and functions of promotions, event-marketing, public relations, and advertising and their growing interdependence in a changing media landscape. Considers technology's impact and the effect of commercial culture on an increasingly diverse society. Restricted to School of Journalism and Mass Communication (JOUR) or

Marketing (MKTG) majors only. Prerequisites: Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-2601 (3) Principles of Journalism and Networked Communication

Surveys the history, practices and responsibilities of journalism in a democracy. Examines ethics, best practices in institutional and network settings, reporting and writing, international news systems, personal branding, and strategies for creating and distributing content across media platforms. Promotes the highest professional values and encourages students to be leaders who recognize the possibilities of journalism in a democratic society. Restricted to Journalism and Mass Communication (JOUR) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-3001 (3) Public Affairs Reporting

Grounds students in the basic newsgathering skills needed to work for news enterprises. Students learn techniques central to researching, reporting and writing stories for various media formats, including print, online, and broadcast journalism. Prereq., JOUR 2601 or 1002. Prerequisites: Requires prerequisite course of JOUR 2601 or 1002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 57 hours taken.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-3002 (3) Multimedia Reporting and Production

Equips students with the tools and techniques needed to produce multimedia content. Classroom instruction offers students historical, social and cultural contexts for the emergence of new media forms. Skills and practices covered include website design and construction, nonlinear video editing, digital graphics design, interactive information presentation, and multimedia reporting. Restricted to juniors/seniors. May be limited to JOUR majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-3102 (3) Photojournalism I

Introduces the basic elements of visual communication. Covers the use of camera systems, digital imaging techniques and other aspects of photojournalism including law, ethics, history and critical decision-making. Prereq., JOUR 2601. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-3403 (3) Branding and Positioning

Examines the theory and practice of branding, target segmentation and how the digital space and the rapid rise of consumer generated content have impacted brand management. Students analyze audience research, and the competitive set to develop brand positions and benefits. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-3453 (3) Introduction to Creative Concepts

Provides an opportunity to explore approaches to creative problem solving and visual thinking. Students draw on this theoretical foundation to develop advertising ideas in a variety of media for both commercial clients and non-profit organizations. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3463 (3) Advertising Media

Studies media, markets, and audiences, and their relationships to advertising messages. Prereqs., JOUR 3403 and 3453. Prerequisites: Requires pre-requisite courses of JOUR 3403 and 3453. Restricted to students with 57-180 credits (Junior or Senior) Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3473 (3) Advertising Research

Introduces students to applied research methods and provides practice in using research in marketing and advertising decision making. Prereqs., JOUR 3403 and 3453. Restricted to junior/senior JOUR, MKTG and ADVT majors.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3503 (3) Intermediate Creative Concepts

Explores both strategic and creative thinking and examines approaches to narrative storytelling as a tool for telling overarching brand stories. Students use the foundation to develop creative briefs and advertising campaigns. Prereqs., JOUR 3403, 3453 and instructor consent. Coreq., JOUR 4513. Prerequisites: Prereq., JOUR 3453 and instructor consent. Coreq., JOUR 4513.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3552 (3) Editing and Presentation

Explores copy editing, graphic principles and processes, new media technology. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3604 (3) Radio and Television News

Covers principles and techniques involved in the preparation of news for broadcasting. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3614 (3) Principles of Audio Production

Introduces audio production techniques using digital technologies. Students learn to apply fundamental principles to create professional radio and online programs including podcasting. Restricted to Journalism majors with a minimum of 45 hours taken. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 45 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3644 (3) Principles of Television Production

Emphasizes the use of video technologies in both field and studio production, camera and editing work, producing and directing for professional program production. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3674 (3) Television Production 2

Covers studio productions for "Newsteam Boulder." Students also do field projects to sharpen their writing, video production, and editing skills. Prereq., JOUR 3644. Prerequisites: Requires pre-requisite course of JOUR 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3771 (3) Media and Communication History

Examines the historical development of various communication technologies (printing press, photography, film, radio, television, computers, Internet); their impact on culture (forms of expression and social relationships); and their relation to various conceptions of the public (citizens, audiences, consumers, markets). Draws on history to explore current issues in media, popular culture and their relation to public life. Prereq., junior or senior standing. May be limited to majors.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-3902 (1-3) Newspaper Practicum

Gives students the opportunity to participate in newswork on Campus Press. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3913 (1-3) Advertising Practicum

Provides the opportunity to do advertising work outside existing classes. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4002 (3) Reporting 2

Assumes mastery of basic reporting and writing skills. Students produce more sophisticated stories on a variety of topics. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) or Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4102 (3) Photojournalism Portfolio

Advanced course intended to give students a forum in which technical skills will be brought to professional standards. Build a polished portfolio of work to present to editors and buyers. Prereq., JOUR 3102. Prerequisites: Requires a prerequisite course of JOUR 3102.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4201 (3) Media, Culture and Globalization

Surveys the political and economic structures of media system in developed and developing countries and discusses the impact of privatization, ownership consolidation, and globalization on the flow of information across national borders. Also looks at how global media flows and counter-flows affect conceptions of nationhood and cultural identity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-4211 (3) East Asian Media and Culture

Offers an understanding of the various people, cultures and nations of East Asia through their media systems. Provides a critical overview of the historical, cultural, social, political and economic dimensions of East Asian communication systems in today's digitally connected/disconnected world. Restricted to junior/senior SJMC majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

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[LAWS-5103 \(1\) Legal Ethics & Professionalism: What Kind of Lawyer Do You Want to Be?](#)

Explores both the kind of law students might decide to practice and the ethical, personal, and professional commitments central to the practice of law. Students who elect to participate in this 1-unit elective are committing to enroll in the fall of the 2nd year in LAWS 6133 for 2 units, focusing on the Model Rules of Professional Conduct. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

[LAWS-5121 \(4\) Contracts.](#)

Covers basic principles of contract liability, offer, acceptance and consideration, statute of frauds, contract remedies, the parole evidence rule, performance of contracts, conditions, effect of changed circumstances, third-party beneficiaries, assignment, and specific performance.

[Law School](#) [Law](#) [Business](#)

[LAWS-5201 \(1\) Entrepreneurship, Innovation and Public Policy](#)

Explores cutting edge questions around entrepreneurship, including being an entrepreneur, leadership and what makes a great founding team, building and scaling a business, entrepreneurial communities, financing entrepreneurial companies, leadership in government, entrepreneurship and innovation policy. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

[LAWS-5205 \(3\) Legislation and Regulation](#)

Introduces lawmaking in the modern administrative state. Examines the way Congress and administrative agencies adopt binding rules of law (statutes and regulations, respectively) and the way

that implementing institutions--courts and administrative agencies--interpret and apply these laws. Considers the structure of the modern administrative state, the incentives that influence the behavior of the various actors, and the legal rules that help to structure the relationships among Congress, the agencies, and the courts. Restricted to LAWS students. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-5211 (1) Framing and Legal Narrative

Explores the role of framing effects in constructing a legal argument. From an appellate court opinion to closing statement to a jury to a white paper to a regulatory agency to a public campaign for a ballot proposition, the role of an overarching narrative is critical to effective persuasion. Prerequisites: Restricted to Law students only.

Law School Law

LAWS-5223 (2) Legal Writing II

Students prepare appellate briefs and related documents and deliver oral arguments before a three-judge court composed of faculty, upper-division students, and practicing attorneys. Practice arguments are videotaped and critiqued.

Law School Law Litigation and Procedure

LAWS-5226 (2) Legal Writing I

Provides an intensive introduction to the resources available for legal research. Students also prepare written material of various kinds designed to develop research skills, legal writing style, and analysis of legal problems. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-5303 (4) Civil Procedure

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-5313 (3) Civil Procedure 2

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart.

Law School Law Litigation and Procedure

LAWS-5323 (1) Courtroom Observation Civil

An elective that requires fifteen hours observing actual civil proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-5425 (3) Torts

Studies nonconsensual allocation of losses for civil wrongs, focusing primarily on concepts of negligence and strict liability. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-5503 (4) Criminal Law

Studies statutory and common law of crimes and defenses, the procedures by which the law makes judgments as to criminality of conduct, the purposes of criminal law, and the constitutional limits upon it.

Law School | Law | Litigation and Procedure

LAWS-5513 (1) Courtroom Observation Criminal

An elective that requires fifteen hours observing actual criminal proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-5624 (4) Property

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls. Prerequisites: Restricted to Law students only.

Law School | Law | Property

LAWS-5634 (2-3) Property 2

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls.

Law School | Law | Property

LAWS-5803 (1) Courtroom Observation International

An elective that requires fifteen hours observing proceedings before an international tribunal(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. The proceedings observed will be available streaming online and the professor will provide information about how to gain access to them. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Prereq., LAWS 6112.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6004 (3) Real Estate Transactions

Focuses on legal issues that arise in all phases of real estate transactions, with an emphasis on the role of the lawyer in the business of real estate as well as on the regulation of real estate markets.

Law School | Law | Property

LAWS-6005 (4) Constitutional Law

Studies constitutional structure: judicial review, federalism, separation of powers; and constitutional rights of due process and equal protection.

Law School | Law | Government and Public

LAWS-6007 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Taxation

LAWS-6008 (3) The International Legal Order: History & Foundations (1500-1950)

Examines the structural and historical aspects of the international legal system. Examines contemporary attitudes, doctrines, and theories of international law by exploring the fundamental questions since the discipline's inception in the Sixteenth Century. Provides a working familiarity with the origins of Public International Law, International Human Rights Law, International Criminal Law, International Organizations, International Trade Law, Law and Development, and Conflict of Laws. Prerequisites: Restricted to Law students only.

Law School | Law | International

LAWS-6009 (4) Legal Aid Civil Practice 1

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-6011 (3) Payment Systems

Examines the methodology and policies of Articles 3 and 4 of the Uniform Commercial Code, dealing with such topics as negotiable instruments, bank deposits, collections, letters of credit, and electronic fund transfers.

Law School | Law | Business

LAWS-6019 (4) Civil Practice Clinic 2

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

Law School | Law | Practice: Clinical & Simulation

LAWS-6021 (3) Secured Transactions

Explores the methodology and policies of Article 9 of the Uniform Commercial Code, dealing with financing transactions in personal property.

Law School | Law | Business



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BCOR-1010 (3) Introduction to Business

Provides an overview of how business works through the application and integration of the fundamental business functions of accounting, finance, management, marketing, and systems. Weekly discussion of current events will focus on entrepreneurship, international business, business and society, and career topics. Restricted to freshmen business majors. Prerequisites: Restricted to Business majors with less than 53 units.

[Leeds School of Business](#) [Business Core](#)

BCOR-1020 (3) Business Statistics

Covers descriptive statistics, basic probability theory, statistical inference and hypothesis testing, correlation and simple linear regression analysis. Students learn decision making and solving business problems by using data. Uses statistical features of commonly used business spreadsheet software. Formerly BCOR 2010. Credit not granted for this course and MATH 2510. Prerequisites: Requires pre-requisite course of MATH 1071 or ECON 1078 or MATH 1001 or MATH 1011 or MATH 1150 or MATH 1300 or MATH 3130 or APPM 3310 or APPM 2360 or APPM 2380. Restricted to Business, ADVT or IAFS Majors only.

[Leeds School of Business](#) [Business Core](#)

BADM-1250 (1) First Year Seminar for Business

Surveys the entire undergraduate experience and includes topics, issues, and practices that focus on the professional, academic, and leadership growth of a business student. It addresses how to make an effective transition to college and puts students on a path to become well-rounded, engaged and globally-minded. Students will acquire the knowledge and skills to take advantage of all the opportunities and support services available to them while learning to balance the challenges and expectations of their business degree. A sample of the topics covered include: transition to college, dealing with academic rigor, developing a professional tool kit--resume and cover letter preparation, interview skills, project management, working in teams and public speaking--and preparing for the role as a global business leader. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-1260 (2) First-Year Global Experience

In today's world of increased mobility, globally aware students have more choices for employment upon graduation and are immediately ready to contribute in global environments. They are aware of global issues and cultural differences, and their global mindset allows them to recognize good ideas from wherever they might come and new market/product opportunities wherever they might exist. This course is the first step toward the development of a global mindset. It provides a meaningful global experience to first-year business students through an in-depth perspective of a specific country or region outside the United States and a short academic trip to the region. Prerequisites: Restricted to College of Business majors only.

Leeds School of Business | Business Administration

BCOR-2000 (4) Accounting and Financial Analysis

Builds a basic understanding of how information regarding a firm's resources and obligations is conveyed to decision makers both outside and within the firm. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to majors in Business, SPPR-PRO, IAFS, or students with WBE subplan.

Leeds School of Business | Business Core

BADM-2010 (1) Excel Lab

Teaches beginner to intermediate level Excel skills, emphasizing efficient use of Excel to make sense of substantial data sets. The course is designed to increase students' proficiency with Excel through a series of hands-on workshops. The workshops have a business problem solving orientation and use real data from Leeds' corporate partners. The workshops emphasize the most important skills that employers value. Prerequisites: Restricted to College of Business majors only.

Leeds School of Business | Business Administration

BADM-2050 (3) Honors/Special Topics

Variable topics in business, drawing from a variety of disciplines. Prereq., 3.50 minimum cumulative GPA.

Leeds School of Business | Business Administration

BCOR-2200 (3) Introductory Finance

Emphasizes the concepts and skills needed to make sound financial decisions. Topics include financial statement analysis, time value of money, interest rates, bond valuation and bond markets, stock valuation and stock markets, cost of capital and capital structure, capital budgeting, financial forecasting, and working capital management. Formerly BCOR 2100. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101 and BCOR2000. Restricted to Bus., IAFS majors, students w/WBE subplan and 26-180 units completed.

Leeds School of Business | Business Core

BCOR-2300 (3) Adding Value with Management

Focuses on how modern business firms compete in the global marketplace by adding value. Examines the value-chain of a firm and how firms use people, organizations, operations, and information systems to compete and win in world markets. Also covers contemporary issues such as total quality management, process reengineering, teams and team building, employee

empowerment, and horizontal organizations. Prereq., BCOR 1010. Restricted to Business, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed. Formerly BCOR 2150. Prerequisites: Restricted to Business majors, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed.

Leeds School of Business | Business Core

BCOR-2400 (3) Fundamentals of Marketing

Examines how activities in organizations provide value to the purchasers of its products and services. Includes gathering information about consumers and competitors through research and information systems, applying knowledge and technology to the design of products and services, communicating information to consumers and organizational units, and pricing and distributing products and services. Also includes issues in global marketing, ethics and diversity, relationship marketing, and integrating marketing with financial analyses. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101. Restricted to Bus., SPPR-PRO, IAFS, or ADVT majors, students w/WBE subplan and 26-180 units.

Leeds School of Business | Business Core

BCOR-2500 (3) Introduction to Operations and Information Management

Takes a systems perspective in exploring the use of information, processes, and models used by businesses to produce goods and services and to effectively manage accounting, finance, human resources, strategy, supply chains/inventory, and other activities in a business. Focuses on making better business decisions faster through better business intelligence by using the right information, at the right time, provided to the right managers. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to Business majors with 13-180 units completed.

Leeds School of Business | Business Core

ACCT-2820 (3) Introduction to Personal Financial Planning

Introduces the concepts, tools, and applications of personal financial planning. Provides the students with tools and techniques for managing their personal finances. With these skills, students gain the ability to effectively deal with their ever-changing financial environment. Restricted to students with at least 26 hours completed.

Leeds School of Business | Accounting

BADM-2880 (3) Special Topics

Explores historical developments, contemporary issues, industry trends, and best practices pertinent to the business of sports. The course examines how sports enterprises are managed, and the impacts that such enterprises have on the economic and social fabric of communities. The course is designed to provide sufficient background for educated consumption of this literature and pursuit of further study if desired. Restricted to sophomores/juniors/seniors.

Leeds School of Business | Business Administration

BCOR-3000 (3) Business Law, Ethics, and Public Policy

Surveys major topics and case studies in business law, business ethics, and government policy. Business law topics include the American legal system, constitutional law, common law, contract principles, criminal and tort law, intellectual property, employment law, and personal and real property law. Ethics topics include the philosophy of law, legal versus moral issues, and professional

responsibility. Public policy topics include the roles of business and government, types of government intervention, and the nature and theory of governmental policy formulation. Prerequisites: Restricted to Business majors, Spanish (SPPR) majors, students with a subplan of WBE, and 52-180 units completed.

Leeds School of Business | Business Core

REAL-3000 (3) Principles of Real Estate

Introduction to real estate as an asset with associated property rights, an industry, profession, and investment. Covers a broad spectrum of real estate principles and terms including legal concepts, regulation and land use, industry issues, valuation, financing methods and sources, and investment analysis. Excellent elective for all students and provides the foundation for other real estate courses. Prereq., BCOR 1010, 1020, 2000, 2200, and 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Real Estate

BCOR-3010 (3) Business Applications of Social Responsibility

Explores alternative views of the role of business in our global society through detailed case analyses, beginning with the free market view. This is a cross-functional area course that helps students to isolate and articulate their personal values that will shape business conduct. Emphasizes individual and organizational responsibility for business behavior in the broader social context. Prerequisites: Requires pre-requisite courses of BCOR 2000, 2200, 2300, 2400 & 2500. Restricted to Business majors with 60-180 units completed.

Leeds School of Business | Business Core

FNCE-3010 (3) Corporate Finance

Covers the theory and practices governing the management of capital in a business firm. Examines the determinants of capital requirements, methods of obtaining capital, problems of internal financial management, and methods of financial analysis. Prerequisites: Requires pre-requisite courses of BCOR 2000 and 2200. Restricted to Business Majors with 52-180 units completed.

Leeds School of Business | Finance

MGMT-3030 (3) Critical Leadership Skills

Provides an opportunity to learn about and practice the skills required of all managers. These skills include leadership, negotiation, conducting performance appraisals, delegation, effective communication, interviewing and making hiring decisions, and managing employees with problem behaviors. Objectives include developing self-awareness of strengths and weaknesses as a manager, gaining familiarity with theory-based skills, and developing proficiency in the use of these skills. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

BADM-3100 (1) Professional Development

Designed to provide opportunities to understand and develop professional competencies for successful careers in business. Designed to increase knowledge of job search strategies and formulate a career management plan for transitioning to the workplace. Topics such as resumes, cover letters, personal branding, job search strategies, internships, career choices, networking and social media will be covered. A Self-Marketing Plan will be developed to help focus on long-term career goals. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Leeds School of Business (BUSN) majors only.

Leeds School of Business | Business Administration

ESBM-3100 (3) Introduction to Entrepreneurship

Introduces non-business students to the multiple facets of entrepreneurship and the entrepreneurial process. Entrepreneurship is a process of fundamental transformation: from innovative idea to enterprise and from enterprise to valuetus, entrepreneurship is more than a business practice. Innovation is central to this process and students will be challenged to develop creative solutions to a problem or need. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

MGMT-3100 (3) Management of Service Operations

Examines concepts, tools and techniques used in the management of service operations. Focuses on how firms add value and compete with high quality and efficient services. Emphasizes the use of models for designing new services and improving the effectiveness of service processes. Studies the application of technology in the context of productivity, growth and the globalization of services. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3030, OPIM 3030. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

MKTG-3150 (3) Sales Management

Explores the selling task and the essentials of managing the sales force. Includes recruiting, selecting and hiring, training, compensating, supervising, and controlling. Covers sales organization, sales planning, sales forecasting, assigning territories, quotas, and sales analysis. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Formerly MKTG 4150. Prerequisites: Restricted to Business or Advertising majors and 52-180 hours completed.

Leeds School of Business | Marketing

ESBM-3200 (3) Principles of Business for Entrepreneurs

Provides non-business students with a basic understanding of the business principles required to start and grow an entrepreneurial venture. It is intended for individuals who have not taken a marketing, accounting or finance course. This course will focus on two aspects of business that are critical to the success of any new venture: marketing and financial management. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

MGMT-3200 (3) Business Intelligence

Focuses on acquiring accurate and timely knowledge to make effective operational, tactical and strategic decisions. This course focuses on how to create and use such knowledge. Topics include problem definition; critical factor isolation; data collection, storage, and querying; transformation of data into knowledge through appropriate analyses and aggregation; and the presentation of the knowledge to decision makers in meaningful ways. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3100, OPIM 3100. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-3210 (3) Business Application Programming

Uses computer programming to teach a complex problem solving skill. Its two main course objectives are: (1) learn to use a structured problem decomposition method, designed to help decompose a complex problem into manageable sub-problems. This method is best exemplified in programming but is applicable to any complex business problem. (2) understand the core concepts of programming--such as variable, object model, and control flow--that will help you not only appreciate the power of programming behind modern technologies but also better understand business process models. Formerly SYST 2010, OPIM 2010 and MGMT 2010.

Leeds School of Business | Management

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ENVD-1004 (3) Introduction to Environmental Design Theory

Introduces students to the complexity of forces that interact to shape the designed environment. A lecture sequence and parallel set of design exercises exposes students to the theory and practice of environmental design, and to the important issues that guide the work of architects, landscape architects, urban designers, and urban planners. Open to nonmajors on a space available basis. Coreqs., ENVD 1052, 2001. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-1010 (3) Design Appreciation

Designed for students who are interested in pursuing a degree in design. Provides a foundation for viewing the world through the "eyes" of a designer and gives a broad overview of various design professions including: Architecture, Planning, Landscape Architecture, and Industrial Design through a basic history of design and speculation concerning the future of these professions. Restricted to non-ARPL students. Prerequisites: Restricted to non-Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-1052 (3) Design and Communication 1

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by emerging digital techniques for the depiction of designed artifacts and environments, allowing students to extend and enhance their understandings of advanced practices for design visualization, representation, and communication. Coreqs., ENVD 1004, 2001. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-1102 (3) Design and Communication 2

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by traditional techniques for the advanced practices for design visualization, representation, and communication. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1104, 2003.

Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- for all). Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-1104 (3) Introduction to Environmental Design Methods

Explores the forces and conditions that interact to shape the designed environment. It does so through a lecture sequence and parallel set of design exercises introducing students to the theory and practice of environmental design. It develops student understandings of the central role design thinking plays as the unique process used to effect appropriate change in the designed environment. Prereq., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- required for all). Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-2001 (3) Human Behavior in Design and Planning

Examines reciprocal relationships between people and their built and natural environments, tracing major issues and approaches in design research to understand how people are influenced by the environment and how they can create healthy, just, and livable places. Coreqs., ENVD 1004, 1052. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-2002 (3) Environmental Design Media 1

Using both lectures and drawing exercises, this class examines the traditional representational conventions used by the design professions to depict and describe space, form, pattern and information. Uses a multi-disciplined approach that explores the three basic intentions that inform the marks that designers make: visualization, representation and communication. Prereq., ENVD 1004. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-2003 (3) Ecology and Design

Introduces basic principles and techniques of ecology as they relate to the design and understanding of the built environment. Includes a study of hazards and the impact of modern technology on the natural and built environments. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 1104. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (with min grade C- for all). Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-2052 (3) Introduction to Computers in Planning

Introduces the use of computers in design fields, including applications for word-processing, desktop publishing, graphic creation, and Cad-style design. Aims to provide basic general skills in computer use that are transferable to other computer applications. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-2100 (6) Architecture Studio 1

The first of four architecture studios, this class introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2002. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-2110 (6) Environmental Design Studio

This class exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to fundamental design practices common to the disciplines---architecture, landscape architecture, planning, urban design---that share the responsibility for shaping the designed environment. Prereq., ENVD 2002.

Program in Environmental Design | Environmental Design | Studios

ENVD-2120 (6) Environmental Design Lab - Urban Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 3122, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-2130 (6) Environmental Design Studio: Landscape Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of architecture, urban design and landscape design - disciplines that share the responsibility for shaping the designed environment. Prereqs., ENVD 1004 and 1104. Restricted to ARPL majors. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-2152 (3) Geographic Info Systems

Focuses on construction and use of computer-based information systems to represent and manipulate geographic data. Emphasizes the recording, mapping, and transforming of data for analysis and use by planners. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3001 (3) Environment and Behavior

Examines the social and behavioral aspects of relationships between people and the designed environment. Gives special attention to antecedent factors (why we have the environments we do),

implications of given arrangements for special population groups, and responses to incongruent environments. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-3002 (3) Design Theory and Methods

The nature of design and systematic methods for improving design. Topics include: nature of design problems; structure of design process; theory of form; problem definition; generating solution ideas; evaluation; roles of form and function. Students use computers without having to learn to program. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3003 (3) Site Planning

Introduces the site planning process including: site analysis and its relationship to building program and site concept, and preparation of site plans. Emphasis is placed on the planning of the physical site through a thorough understanding of process, land use, site constraints and synthesis of ecological, functional and aesthetic considerations in the site planning process. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3004. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to College of Architecture and Planning majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-3004 (3) History of Landscape Architecture

Investigates landscape architectural thought from antiquity to the present. Begins with a review of Greek ideals and proceeds - through an appreciation of landscape and nature as essential cultural constituents - with a survey of major themes such as Renaissance Humanism, the Picturesque, and the varieties of Modernism, Neo-Eclecticism and most recent directions in landscape and garden design. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3003. Restricted to College of Architecture and Planning undergrads. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-3009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 1004 and 1052. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-3015 (3) Introduction to Historic Preservation

Introduces methods for identifying historic structures and evaluating their materials. Considers techniques for preserving and restoring and legal options for promoting preservation efforts. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Technology and Practice

ENVD-3022 (3) Technical Photography

Introduces students to the technical and practical aspects of making photographic images: the workings of the camera and lens, principles of depth of field, black and white film processing, printing, and basic darkroom procedures. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3052 (3) Introduction to Computer Methods in Environmental Design

Surveys existing and emerging computer methods used in the environmental design professions, with an introduction to computer programming. Open to nonmajors with instructor consent.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3100 (6) ENVD Studio--Architectural Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3115. Restricted to ARPL students only. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3110 (6) Architecture Studio 1

The first of four upper-division studios introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2110. Restricted to junior/senior ARCH majors.

Program in Environmental Design | Environmental Design | Studios

ARCH-3114 (3) History and Theories of Architecture 1

Surveys architecture, landscape architecture, and urban design from 3000 B.C. to A.D. 1400, emphasizing developments in the Western world. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ENVD 3100, 3115. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

Program in Environmental Design | Architecture

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EDUC-2020 (1) Step 1: Inquiry Approaches to Teaching

Invites science and mathematics students to explore teaching as a career by providing first-hand experiences teaching science/math lessons in local elementary classrooms. Introduces theory and practice necessary to design and deliver excellent instruction. Master teachers provide ongoing support and feedback. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local elementary school. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

[School of Education](#)
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EDUC-2030 (1) Step 2: Inquiry-Based Lesson Design

Builds on EDUC 2020 and further develops lesson design and inquiry-based teaching practice. Offers opportunity to explore teaching career and learn about middle school culture. Master teacher provides support as students design and deliver lessons in middle school classrooms. Emphasizes assessment of student learning. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local middle school. Prereq., EDUC 2020.

[School of Education](#)
[Education](#)
[General Education](#)

EDUC-2050 (1) Step into Humanities Teaching

Invites students in humanities and social sciences to explore teaching as a career by providing first-hand experiences teaching in local elementary and middle schools. Introduces theory and practice necessary to design and deliver excellent instruction. Students receive ongoing support and feedback from a classroom teacher. Meets weekly on CU campus (1.25 hours/week). Involves additional visits to local schools.

[School of Education](#)
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EDUC-2125 (3) History of American Public Education

Provides overview to evolution of American public schools by exploring major reform efforts from the common school movement to present. Considers contentious values, important players, and roots of school structures. Examines both what intellectuals were thinking about public education and how ordinary people experienced schools. Assesses how differences in race, class, ethnicity, gender, and power shape public schools.

School of Education | Education | General Education

EDUC-2150 (3) Education in Film

Provides opportunities to view and analyze how facets of education are represented (or misrepresented) in film. Considers narratives constructed about education and how those stories fuel popular conceptions of and assumptions about students, teachers, and schools. Examines how issues of race, class, and gender are embedded in how films represent schools, teachers, students, and communities.

School of Education | Education | General Education

EDUC-2400 (3) Cultural Diversity and Awareness

Enhances students' self-awareness in a variety of educational and cultural settings. Investigates self within a cultural context, inviting students to engage more deeply with their cultural assumptions and lenses, as well as the cultural practices and beliefs of other distinct groups. Explores themes relating to diversity through works of fiction, cultural contexts, contemplative practices, poetry, music and experiential activities.

School of Education | Education | General Education

EDUC-2625 (3) Teaching English as a Second Language

Exposes students to strategies used to teach English as a second or foreign language. Covers both theoretical and applied aspects of language learning and teaching. Exposes students to techniques, activities, strategies and resources to plan instruction for students learning English as a second language. Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

School of Education | Education | General Education

EDUC-2800 (1-3) Special Topics

Designed to meet needs of students with topics of interest. May be repeated up to 12 credit hours.

School of Education | Education | General Education

EDUC-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2920. May be repeated up to 6 total credit hours. Same as LDSP 2910.

School of Education Education General Education

EDUC-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as INVS 2919. Approved for arts and sciences core curriculum: human diversity.

School of Education Education General Education

EDUC-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2910. May be repeated up to 6 total credit hours. Same as LDSP 2920.

School of Education Education General Education

EDUC-3013 (3-4) School and Society

Introduces students - both future teachers and those simply interested in education - to pressing issues surrounding education within the United States. The course reveals the complex relationship between schools and the larger society of which they are a part. Examines issues of diversity and equity from different disciplinary lenses, including history, philosophy, sociology and anthropology. Approved for arts and sciences core curriculum: contemporary societies or human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education Education General Education

EDUC-3570 (3) Learning With Technology In and Out of School

Examines ways digital media are changing the way young people learn, play, make friends, and participate in civic life. Studies widely implemented digital tools intended to support literary, math, and science learning of children ages 4-18. Involves brief internship (5 hours outside class) and design projects that integrate these tools to transform in either a classroom or after-school program.

School of Education Education General Education

EDUC-3621 (1-3) Art for the Elementary Teacher

Introduces elementary education students to art education. Introduces many visual art techniques, art media, and processes used in art education. The class includes hands-on studio art

experiences in a format that supports subjects such as literature, writing, music, and social studies. Emphasizes the role of art education and materials in supporting the artistic development and visual literacy of children. Prereq., completion of 30 hours of course work. Restricted to Education majors.

School of Education | Education | Elementary Education

EDUC-4015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace corps and Volunteer Agencies. Same as EDUC 5015.

School of Education | Education | General Education

EDUC-4023 (3-5) Differentiating Instruction in Diverse Secondary Classrooms

Focuses on teaching culturally and linguistically diverse secondary school students, special education students, and differentiation in the secondary classroom. Includes hands-on experiences in secondary school settings. Restricted to students admitted to the secondary or K-12 music teacher education program. Credit not granted for this course and EDUC 4351. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDJU, EDSP, EDSS or MMED majors only.

School of Education | Education | Secondary Education

EDUC-4050 (3) Knowing and Learning in Mathematics and Science

Explores current theories of learning in mathematics and science at the secondary level. This course focuses on the interrelation between learners' conceptual and sociocultural development. Students examine their own assumptions about learning, and critically examine the needs of a diverse student population in the classroom. Prerequisites: Restricted to AMEN, ASTR, BOHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

School of Education | Education | Secondary Education

EDUC-4060 (3) Classroom Interactions

Students design and implement instructional activities informed by what it means to know and learn mathematics and science, and then evaluate the outcomes of those activities on the basis of classroom artifacts. Students examine how content and pedagogy combine to make effective teaching. Same as EDUC 5060. Prerequisites: Restricted to School of Education (EDUC), Mathematics-Secondary Education (EDMA) or Science-Secondary Education (EDSC) majors only.

School of Education | Education | Secondary Education

EDUC-4112 (3) Educational Psychology and Adolescent Development

Analyzes fundamental psychological concepts underlying classroom instruction, as well as adolescent growth and development. Same as PSYC 4114. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education | Education | Secondary Education

EDUC-4125 (3) Secondary World Language Methods

Presents and discusses issues in secondary school curriculum, instruction, and classroom management as they play out in world language classroom. Examines, analyzes, and evaluates a variety of teaching strategies, their effectiveness for students, and teacher dispositions to facilitate learning. Includes in-school experiences. Restricted to students admitted to the secondary teacher education program. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

School of Education | Education | Secondary Education

EDUC-4135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course.

School of Education | Education | Graduate Education

EDUC-4161 (1-3) Children's Literature

Addresses reading and evaluation of books, children's, interests, authors and illustrators, folk literature, multicultural literature, modern fanciful tales, and trends.

School of Education | Education | General Education

EDUC-4222 (3) Language Study for Educators

Focuses on the nature of linguistic development and performance. Examines works that reflect a range of scholarly approaches to language study, explores language use both in and out of school, takes up the relationships between language practices and power, and considers implications for classroom teaching. Same as EDUC 5222.

School of Education | Education | General Education

EDUC-4232 (3) Language and Literacy across the Curriculum

Explores the relationship between language and learning with the goal of developing teaching practices that engage students in using language as a tool for understanding and constructing meaning across the curriculum. Explores how language/literacy take on different forms and functions in different social contexts and academic disciplines. Restricted to students admitted to the secondary teacher education program. Same as EDUC 5235. Prerequisites: Restricted to undergraduate Science-Secondary Education (EDSC) or Mathematics-Secondary Education (EDMA) majors only.

School of Education | Education | Secondary Education

EDUC-4240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) | [Education](#) | [General Education](#)

[1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [next »](#) | [last »](#)

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Graduate Teacher Program

The Graduate Teacher Program (GTP) provides for all graduate students:

- professional development opportunities
- career consulting
- videotape consultation
- teacher training

Because teaching skills prepare graduate students for any career, all graduate students, including those with no teaching appointments, TAs, GPTIs, and RAs are welcome at GTP workshops on teaching, research, service, and personal and professional development. Workshops are held prior to both fall and spring semesters, throughout the academic year, and during summer session. Topics range from preparing a syllabus, diversity issues, effective approaches to research, academic service, and conflict management to preparing for an academic job interview.

The Graduate Teacher Program offers **three certificates** (*see below*). Requirements for each are posted on the GTP website at gtp.colorado.edu.

The **Lead Graduate Teacher Network** offers academic leadership training to 50 graduate students each year. Leads receive the Best Should Teach Silver Award, spend one week in extensive training, and assist departmental faculty with discipline-specific TA training.

International graduate students may benefit from workshops designed specifically for them at the Fall Intensive, workshops throughout the year, individualized consultation on teaching and career planning, and referrals to ESL services.

The Graduate Teacher Program's **Collaborative Preparing Future Faculty Network (COPFFN)** provides professional development opportunities for graduate students and faculty. PFF fellows may attend site visits on partner campuses, identify a faculty mentor on a partner campus, work on technology projects, and pursue the PDC/PFF.

The Graduate Teacher Program collaborates with the University Libraries to provide **Provost's Fellowships** to graduate students who wish to explore academic librarianship as a career.

➤ Certificate Program

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Cognitive Science

+ Graduate Degree Program(s)

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Engineering Management

[+ Graduate Degree Program\(s\)](#)

[+ Certificate Program](#)

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Geophysics

[+ Graduate Degree Program\(s\)](#)

[+ Certificate Program](#)

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Museum and Field Studies

The interdisciplinary museum and field studies program leading to a master of science degree is administered by the University Museum, in conjunction with the departments of anthropology; history; art history; ecology and evolutionary biology; and geological sciences; as well as other departments. The program provides a strong background in a chosen field as well as theoretical and practical grounding in museology.

Internships are offered at a variety of museums in the region, including natural history, history, and art museums. Students completing the MS are trained as collection managers, curatorial assistants, registrars, museum educators, exhibit technicians, and administrators.

Program Tracks. Two tracks are available: a collection/field track and an administrative/public track.

- The **collection/field track** offers training for students interested in the curatorial and research aspects of museum work, such as floristic or faunistic studies of the past and present, material culture of the past and present, and biological inventory. The curriculum gives students academic training as well as experience in all areas of museum work. Field experience is offered through the curatorial and field practica.
- The **administrative/public track** offers education for students interested in the public aspects of the museum such as program development and evaluation, exhibition planning and design, education, and the organization and management of museums. The curriculum offers both academic training in a discipline and hands-on experience with all aspects of the public museum.

➤ Graduate Degree Program(s)

➤ Certificate Program

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Neuroscience

[+ Graduate Degree Program\(s\)](#)

[+ Certificate Program](#)

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Interdisciplinary and Certificate Programs

| Program | Degree Type |
|--|-------------|
| Astrodynamics and Satellite Navigation Systems | |
| Atmospheric and Oceanic Sciences | MS, PhD |
| Behavioral Genetics | |
| Biotechnology | |
| Center for Advanced Engineering and Technology Education (CAETE) | ME, MS |
| Cognitive Science | PhD |
| Critical Theory | |
| Embedded Systems | |
| Engineering Management | ME |
| Environment, Policy, and Society | |
| Geophysics | PhD |
| Graduate Teacher Program | |
| Human Language Technology | |
| Hydrologic Sciences | |
| Molecular Biophysics | |
| Museum and Field Studies | MS |
| Neuroscience | PhD |
| Peace Corps | |
| Population Studies | |
| Power Electronics | |
| Remote Sensing | |
| Renewable and Sustainable Energy | |
| Science and Technology Policy | |

| | |
|--------------------------|-------------|
| Software Engineering | |
| Telecommunications | ME, MS, PhD |
| Women and Gender Studies | |

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Chemical Physics

Doctoral Degree in Chemical Physics

The interdepartmental doctoral program in chemical physics prepares students for research in such interdisciplinary fields as atomic and molecular radiative processes, spectroscopy, laser chemistry and physics, atmospheric chemistry, molecular quantum mechanics, statistical mechanics, kinetics, chemistry and physics of the surface and condensed phase, semiconductors, and nanoscale processes.

Students wishing to pursue the doctoral degree in chemical physics should apply for admission to either the Department of Chemistry and Biochemistry or the Department of Physics.

Entering students take a qualifying examination in the area of their undergraduate major. The comprehensive examination tests their knowledge of both chemistry and physics. Certain requirements associated with the regular doctoral programs in the participating departments will be replaced by requirements in the complementary field; each student's program of course work and research will be individually planned according to the student's special needs.

The program is administered by an interdepartmental committee. For further information, contact the graduate program assistant in either the Department of Chemistry and Biochemistry or the Department of Physics.

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Cognitive Science Studies

The Institute of Cognitive Science offers academic programs for both graduate and undergraduate students. Cognitive science is the study of human knowledge, of which one aspect is the study of how knowledge is acquired, stored, and represented in the mind, including the mind's underlying biological mechanisms. Another aspect of cognitive science concerns how knowledge is understood, remembered, communicated, and used in the performance of activities, including the acquisition and application of skills and information. This latter aspect provides the practical applications of cognitive science, and thereby ensures a demand for graduates in both academic and industrial markets. Training for graduates in cognitive science prepares students admirably for many of the fields that are targeted as the major growth fields of the 21st century: **telecommunications, information processing, medical analysis, data retrieval, education, and multimedia services**.

The undergraduate program includes courses in the six core departments, with basic courses and two of four possible advanced skill sequences of courses.

+ Graduate Degree Program(s)

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Computer Science

Computer science is an exciting and challenging field with impact on much of modern life. Computer scientists craft the technologies enabling the digital devices used every day; developing the large-scale software powering business and industry, advancing the computational techniques, and writing the software scientists use to identify and analyze patterns in the behavior of social groups and human behavior in social networks and the applications humanists and linguists use to research language development. Many new applications of computing technology remain to be discovered and computing will be at the heart of future revolutions in business, science, and society. Students who study computer science now will be at the forefront of those important advances.

Computer science is concerned with how computers are constructed, how they are used to store and process data, used in problem-solving, and used to assess the quality of solutions to problems.

Creating software for a variety of users requires understanding how software interacts with the hardware on which it runs. Computer science goes well beyond the machine to the study of how people interact with the technologies around them. Applications of computer science reach far and wide.

Career Possibilities

Computer science graduates from CU-Boulder are engaged in a variety of jobs with organizations worldwide in fields such as communications, finance, publishing, and research. They are software developers, teachers, writers, doctors, lawyers, scientists, military leaders, and entrepreneurs. Many computer science graduates lead highly successful companies that they themselves have founded.

Facilities, Programs, and Opportunities

The Department of Computer Science supports its own domain (www.colorado.edu/cs) and a modern computing infrastructure facilitating its research and educational missions. The department has a variety of computing facilities for use by faculty, staff, and students including general purpose computing labs provided by the university, additional instructional labs and administrative computing resources provided by the department, and specialized labs for individual research groups. The variety of computing resources provides students the opportunity to learn about and use cutting-edge equipment and software.

The Undergraduate Research Opportunities Program (UROP) offers students a chance to work alongside a faculty sponsor on original research. Students learn to write proposals, conduct research, pursue creative work, analyze data, and present the results. For more information, call UROP at **303-492-2596** or visit enrichment.colorado.edu/urop.

The department also provides students networking opportunities throughout the year with companies offering paid internships. CU's location near Boulder's tech start-up community, national research labs, and traditional tech companies such as Google, IBM, Oracle, and Microsoft, gives students with computer science skills many employment opportunities while earning their degrees.

The course code for this program is CSCI.

➔ Bachelor's Degree Program(s)



Faculty: Anthropology

| Name | Working Title | Description |
|-----------------------|--|---|
| BAMFORTH, Douglas B. | professor | BA, University of Pennsylvania; MA, PhD, University of California, Santa Barbara |
| CAMERON, Catherine M. | professor | BA, University of California, Berkeley; MA, University of New Mexico; PhD, University of Arizona |
| CORDELL, Linda S. | professor emerita | |
| COVERT, Herbert H. | department chair; professor | BA, University of Massachusetts; MA, Arizona State University; PhD, Duke University |
| DUFOUR, Darna L. | associate dean for faculty and administrative affairs, College of Arts and Sciences; professor | BS, Northeastern University; MA, PhD, State University of New York, Binghamton |
| EDDY, Frank W. | associate professor emeritus | |
| GOLDSTEIN, Donna M. | associate professor | BS, Cornell University; EdM, Harvard Graduate School of Education; PhD, University of California, Berkeley |
| GREENE, David Lee | professor emeritus | |
| GUTIÉRREZ, Gerardo | assistant professor | BA, The National School of Anthropology and History, Mexico; MA, El Colegio de México, Mexico; PhD, Pennsylvania State University |
| HALL, Kira | associate professor of linguistics; associate professor attendant rank | BA, Auburn University; MA, PhD, University of California, Berkeley |
| HESTER, James J. | professor emeritus | |
| JONES, Carla | associate professor | BA, MA, University of California, Berkeley; PhD, University of North Carolina at Chapel Hill |
| JOYCE, Arthur A. | professor | BA, University of Delaware; MA, PhD, Rutgers University |
| KASCHUBE, Dorothea V. | professor emerita | |
| KELSO, Alec J. | professor emeritus | |
| LEIGH, Steven R. | dean of college; professor | BA, Northwestern University; MA, University of Tennessee, Knoxville; PhD, Northwestern University |
| LEKSON, Steven H. | professor; curator of museum studies | BA, Case Western Reserve University; MA, Eastern New Mexico University; PhD, University of New Mexico |
| LOUDON, James E. | instructor | BS, Central Washington University; MA, University of Calgary; PhD, University of Colorado Boulder |
| McCABE, J. Terrence | professor | BA, University of Notre Dame; MA, PhD, State University of New York at Binghamton. |

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|--------------------------|---|--|
| McGILVRAY, Dennis B. | professor | BA, Reed College; MA, PhD, University of Chicago |
| McGOODWIN, James Russell | professor emeritus | |
| McGRANAHAN, Carole M. | associate professor | BA, Colgate University; MA, PhD, University of Michigan |
| NISHIKAWA, Richard Y. | assistant dean for curricular affairs, College of Arts and Sciences; assistant professor attendant rank | AB, University of California, Santa Cruz; PhD, University of Washington |
| ROLAND, L. Kaifa | assistant professor | BA, Oberlin College; MA, Howard University; PhD, Duke University |
| SAUTHER, Michelle L. | associate professor | BA, Montana State University; MA, Arizona State University; PhD, Washington University |
| SHANKMAN, Paul | professor | BA, University of California, Santa Barbara; PhD, Harvard University |
| SHANNON, Jennifer | assistant professor | BA, Bowdoin College; MA, University of Chicago; PhD, Cornell University |
| SHEETS, Payson D. | professor of distinction | BA, MA, University of Colorado; PhD, University of Pennsylvania |
| SPONHEIMER, Matt | associate professor | BA, Bucknell University; MA, PhD, Rutgers University |
| VAN GERVEN, Dennis P. | professor | BA, University of Utah; MA, PhD, University of Massachusetts Amherst |
| WALKER JR., Deward E. | professor emeritus | |

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Faculty: Applied Mathematics

| Name | Title | Education |
|------------------------|--|--|
| ABLOWITZ, Mark J. | department chair; College Professor of Distinction | BS, University of Rochester; PhD, Massachusetts Institute of Technology |
| BEBERNES, Jerrold | professor emeritus | |
| BEYLKIN, Gregory | professor | BS, MS, University of Leningrad; PhD, Courant Institute of Mathematical Sciences, New York University |
| BHAT, Y. Sujeet | instructor | BS, PhD, University of Florida; MS University of Texas at Dallas |
| BORTZ, David | assistant professor | BA, Rice University; MS, PhD, North Carolina State University |
| CORCORAN, Jem | associate professor | BS, Colorado State University; MS, Purdue University; PhD, Colorado State University |
| CURRY, James H. | professor | BA, MA, PhD, University of California, Berkeley |
| DOUGHERTY, Anne | associate chair; senior instructor | BS, Texas Christian University; MS, Oregon State University; PhD, University of Wisconsin |
| DUKIC, Vanja M. | associate professor | BS, Bryant University; MS, PhD, Brown University |
| EASTON, Robert | professor emeritus | |
| FORNBERG, Bengt | professor | BS, PhD, Uppsala University |
| JULIEN, Keith | professor | BS, Kings College, University of London; PhD, Churchill College, Cambridge University |
| KLEIBER, Will | assistant professor | BS, University of Iowa; PhD, University of Washington at Seattle |
| LI, Congming | professor | BS, University of Science and Technology of China; MS, Institute of System Sciences; PhD, Courant Institute of Mathematical Science, New York University |
| LLADSER, Manuel E. | associate professor | BS, Universidad de Chile; MS, University of Wisconsin; PhD, Ohio State University |
| MANTEUFFEL, Thomas | professor | BS, University of Wisconsin; MS, PhD, University of Illinois |
| MARTINSSON, Per-Gunnar | graduate chair; associate professor | Diploma and Licentiate degree, Chalmers University of Technology in Gothenburg; PhD, University of Texas at Austin |
| McCORMICK, Steven | professor | BA, San Diego State College; PhD, University of Southern California |
| MEISS, James D. | professor | BS, University of Washington; MA, PhD, University of California, Berkeley |
| NORRIS II, J. Adam | senior instructor | BS, University of Colorado; MS, Massachusetts Institute of Technology; PhD, University of Colorado |
| RESTREPO, Juan | assistant professor | BS, MS, Universidad de los Andes; PhD, University of Maryland |
| | | BS, Michigan State University; MS, PhD, University of California, Berkeley |

SEGUR, Harvey

professor

WILLIAMSON, John

professor emeritus

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Faculty: Art and Art History

| Name | Title | Education |
|----------------------|------------------------------|--|
| ALHADEFF, Albert | associate professor | AB, Columbia University; MA, PhD, New York University |
| AMBROSE, Kirk | chair; associate professor | BA, Oberlin College; MA, PhD, University of Michigan, Ann Arbor |
| AMERIKA, Mark | professor | BA, University of Florida; MFA, Brown University |
| BROWN, Marilyn | professor | BA, Birmingham-Southern College; MA, PhD, Yale University |
| CHAMBERLIN, H. Scott | professor | BA, San Francisco State University; MFA, New York State College of Ceramics at Alfred University |
| CHONG, Albert | professor | BFA, School of Visual Arts, New York; MFA, University of California, San Diego |
| CLINE, Clinton C. | professor emeritus | |
| CÓRDOVA, James | assistant professor | BA, New Mexico State University; MA, PhD, Tulane University |
| DAY, Robert E. | professor emeritus | |
| DICKEY, Kim | professor | BFA, Rhode Island School of Design; MFA, New York State College of Ceramics at Alfred University |
| DURÉESÉ, Françoise | assistant professor | BFA, BA, Wayne State University; MFA, Temple University |
| EADES, Luis E. | professor emeritus | |
| ECKER, Robert R. | professor emeritus | |
| FARAGO, Claire J. | professor | BA, Wellesley College; MA, Brown University; PhD, University of Virginia |
| FORSMAN, Charles S. | professor emeritus | |
| FOSTER, Suzanne R. | assistant professor emerita | |
| GECK, Francis J. | professor emeritus | |
| GREGORIO, Alvin | assistant professor | BFA, California State University, Fullerton; MFA, Claremont Graduate University |
| HAYNES, Deborah J. | professor | BFA, MFA, University of Oregon; MTS, Harvard Divinity School; PhD, Harvard University |
| IWAMASA, Ken | associate professor emeritus | |
| KUNKEL, Jerry W. | professor emeritus | |
| LIL, Kira Van | assistant professor | BA, MA, PhD, Ludwig-Maximilians-Universität, Munich |
| MILLER, Kay | professor emerita | |

| | | |
|------------------------|---------------------|---|
| MINOR, Vernon H. | professor emeritus | |
| NAUMAN, Robert | senior instructor | BME, Central Missouri State University; MMus, MA, University of Colorado Boulder; PhD, University of New Mexico |
| PARK, Jong Phil | assistant professor | BA, Seoul National University, Korea; MA, PhD, University of Michigan |
| POTTER, Thomas J. | professor emeritus | |
| QUALLEY, Charles A. | professor emeritus | |
| QUINN, Jeanne | associate professor | BA, Oberlin College; MFA, University of Washington |
| RIVERA, George | professor | BA, MA, University of Houston; PhD, State University of New York |
| ROTH, Yumi Janairo | associate professor | BA, Tufts University; BFA, School of Museum of Fine Arts, Boston; MFA, State University of New York |
| SAMPSON, John Franklin | professor emeritus | |
| SAXTON, Richard | assistant professor | BFA, University of Nebraska; MFA, Indiana University |
| STEVENS, C. Maxx | assistant professor | AA, Haskell Indian Junior College; BFA, Wichita State University; MFA, Indiana University |
| SWEETMAN, Alex J. | associate professor | New York University; MFA, State University of New York at Buffalo |
| VALDOVINO, Luis | professor | BFA, Ohio University; MFA, University of Illinois |
| VANDERSALL, Amy L. | professor emerita | |
| WALKER, Melanie | associate professor | BA, San Francisco State University; MFA, Florida State University, Tallahassee |
| WILSON, John B. | professor emeritus | |
| WOLFE, Lynn Robert | professor emeritus | |
| WOMACK, Michael | assistant professor | BFA, University of Georgia; MFA, Pratt Institute |
| WOO, Joo Yeon | assistant professor | BFA, MFA, Kyungpook National University, Korea; MFA, Pennsylvania State University |
| WOODMAN, Elizabeth A. | professor emerita | |
| WOODMAN, George E. | professor emeritus | |
| YAZZIE, Melanie | associate professor | BA, Arizona State University, Tempe; MFA, University of Colorado Boulder |

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Faculty: Asian Languages and Literatures

| Name | Title | Education |
|--------------------------|---|---|
| BAHOORA, Haytham | assistant professor | BA, University of Michigan; MA, PhD, New York University |
| BROWN, Janice | department chair; professor of Japanese | BA, MA, PhD, University of British Columbia |
| BRUECK, Laura | assistant professor of Hindi | BA, Smith College; MA, PhD, University of Texas at Austin |
| CASS, Victoria B. | associate professor emerita | |
| CHEN, Jin | instructor of Chinese | BA, Yunnan Normal University; MA, University of Colorado Boulder |
| FAROKHFAL, Reza | instructor of Farsi | BA, Pahlavi University, Iran; MA, Concordia University |
| HSU, Chun-ling | instructor of Chinese | BA, Soochow University, Taiwan; MEd, University of Wisconsin–River Falls |
| KANEYASU, Michiko | instructor of Japanese | BA, MA, PhD, University of California, Los Angeles |
| KIM, Sangbok | instructor of Korean | BA, Korea University; MA, California State University, Long Beach; PhD, University of California, Los Angeles |
| KIMBROUGH, Randle Keller | associate professor of Japanese | BA, Colorado College; MA, Columbia University; MA, PhD, Yale University |
| KLEEMAN, Faye Yuan | associate professor of Japanese | BA, Soochow University, Taiwan; MA, Ochanomizu University, Japan; PhD, University of California, Berkeley |
| KLEEMAN, Terry F. | associate professor of Chinese | BA, University of Miami; MA, University of British Columbia; PhD, University of California, Berkeley |
| KNAPCZYK, Peter | instructor of Hindi | BA, Indiana University; MA, Brown University; MA, PhD, University of Texas at Austin |
| KROLL, Paul W. | professor of Chinese | BA, MA, PhD, University of Michigan |
| MATSUNAGA, Yumiko | Senior instructor of Japanese | BA, Kagawa University; MA, PhD University of Wisconsin, Madison |
| RICHTER, Antje | assistant professor of Chinese | PhD, Munich University |
| RICHTER, Matthias | assistant professor of Chinese | PhD, Hamburg University |
| RODD, Laurel Rasplica | professor of Japanese | BA, DePauw University; MA, PhD, University of Michigan |
| SON, Suyoung | assistant professor of Chinese | BA, Yonsei University; MA, University of Illinois, Urbana-Champaign; PhD, University of Chicago |
| STUCKEY, G. Andrew | assistant professor of Chinese | BA, Colgate University; MA, PhD, University of California, Los Angeles |
| TAKAHARA, Kumiko | associate professor emerita | BA, MA, University of the Sacred Heart; MA, University of Edinburgh; PhD, University of London |
| WANG, Chiung-Yao | senior instructor of Chinese | BBA, FengChia University; MS, Connecticut State University; PhD, Michigan State University |
| WILLIS, Donald Sigurdson | professor emeritus | |

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Asian Studies

| Name | Title | Education |
|--------------------|--|--|
| OAKES, Timothy S. | director; professor of geography | BA, Colby College; MA, PhD, University of Washington |
| WESTON, Timothy B. | associate director and Asian Studies faculty advisor; associate professor of history | BA, University of Wisconsin; MA, PhD, University of California, Berkeley |

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Faculty: Astrophysical and Planetary Sciences

| Name | Title | Education |
|------------------------|-------------------------------|---|
| ARMITAGE, Philip | professor | BA, MA, PhD, University of Cambridge |
| AYRES, Thomas R. | research professor | AB, Harvard College; PhD, University of Colorado |
| BAGENAL, Frances | professor | BSc, University of Lancaster, England; PhD, Massachusetts Institute of Technology |
| BAKER, Daniel | professor | BA, MS, PhD, University of Iowa |
| BALLY, John | professor | BS, University of California, Berkeley; MS, PhD, University of Massachusetts Amherst |
| BARTH, Charles A. | professor emeritus | |
| BEGELMAN, Mitchell C. | departmental chair; professor | AB, AM, Harvard University; PhD, Cambridge University |
| BRAIN, David | assistant professor | BA, Rice University; MS, PhD, University of Colorado Boulder |
| CASH, Webster C. | professor | BS, Massachusetts Institute of Technology; PhD, University of California, Berkeley |
| COMERFORD, Julia M. | assistant professor | AB, Princeton University; MA, PhD, University of California, Berkeley |
| CONTI, Peter S. | professor emeritus | |
| DARLING, Jeremiah K. | assistant professor | BS, California Institute of Technology; PhD, Cornell University |
| DÉSERT, Jean-Michel | assistant professor | BS, MS, University of New Orleans; PhD, University of Paris VI |
| DULK, George A. | professor emeritus | |
| DUNCAN, Douglas K. | senior instructor | BS, California Institute of Technology; PhD, University of California, Santa Cruz |
| ELLINGSON, Erica | associate professor | BS, Massachusetts Institute of Technology; PhD, University of Arizona |
| ERGUN, Robert | professor | BS, MS, Cornell University; PhD, University of California, Berkeley |
| ESPOSITO, Larry W. | professor | BS, Massachusetts Institute of Technology; PhD, University of Massachusetts |
| FRONING, Cynthia S. | assistant research professor | BS, MA, PhD, University of Texas |
| GLENN, Jason | professor | BS, University of New Mexico; PhD, University of Arizona |
| GREEN, James | professor | BS, Stanford University; MA, PhD, University of California, Berkeley |
| HALVERSON, Nils | associate professor | BS, Stanford University; MS, PhD, California Institute of Technology |
| HAMILTON, Andrew J. S. | professor | BA, St. Catherine's College, Oxford; MSc, Liverpool University and Queen Mary College, London University; PhD, University of Virginia |

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|------------------------|----------------------------------|--|
| HINDMAN, Bradley W. | assistant research professor | BA, University of Puget Sound; PhD, University of Colorado Boulder |
| HORNSTEIN, Seth | senior instructor | BA, Virginia Polytechnic Institute & State University; MS, PhD, University of California, Los Angeles |
| LINSKY, Jeffrey | research professor emeritus | |
| MALVILLE, J. McKim | professor emeritus | |
| McCRAY, Richard A. | distinguished professor emeritus | |
| PERNA, Rosalba | associate professor | BA, University of Salerno; MA, PhD, Harvard University |
| RAST, Mark P. | associate professor | BA, University of California, Davis; BA, University of California, Santa Cruz; PhD, University of Colorado |
| SCHNEIDER, Nicholas | associate professor | BS, Dartmouth College; PhD, University of Arizona |
| SHULL, J. Michael | professor | BS, California Institute of Technology; MA, PhD, Princeton University |
| SNOW, Jr., Theodore P. | professor emeritus | |
| SPEISER, Theodore W. | professor emeritus | |
| STOCKE, John T. | professor | AB, Princeton University; PhD, University of Arizona |
| THOMAS, Gary E. | professor emeritus | |
| TOOMRE, Juri | professor | BS, MS, MSc, Massachusetts Institute of Technology; PhD, Trinity College, Cambridge University |
| WARWICK, James W. | professor emeritus | |

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Faculty: Atmospheric and Oceanic Sciences

| Name | Title | Education |
|----------------------|--------------------------------------|---|
| ALEXANDER, Joan | professor adjoint | BS, Purdue University; MS, PhD, University of Colorado Boulder |
| AVALLONE, Linnea | professor | BS, Massachusetts Institute of Technology; MA, PhD, Harvard University |
| CASSANO, John | associate chair; associate professor | BS, Montana State University; MS, University of Wisconsin–Madison; PhD, University of Wyoming |
| FORREST, Betsy | instructor | BS, Metropolitan State College of Denver; BA, University of North Carolina; PhD, University of Colorado Boulder |
| FRIEDRICH, Katja | assistant professor | Abitur, Thomas-Gymnasium, Leipzig; MS, Leipzig University; PhD, Ludwig-Maximilians University, Munich |
| HAN, Weiqing | associate professor | BS, Nanjing Institute of Meteorology; MS, Chinese Academy of Meteorological Sciences; PhD, Nova SE University |
| HART, John E. | professor emeritus | |
| KEEN, Richard A. | instructor emeritus | |
| LOVENDUSKI, Nicole | assistant professor | BS, Washington University in St. Louis; MS, PhD, University of California, Los Angeles |
| LUNDQUIST, Julie | assistant professor | BS, Trinity University; MS, PhD, University of Colorado Boulder |
| NOONE, David | associate professor | BS, PhD, University of Melbourne |
| PIELKE SR., Roger A. | senior research associate | BA, Towson State College; MS, PhD, Pennsylvania State University |
| PILEWSKIE, Peter | professor | BS, Pennsylvania State University; MS, PhD, University of Arizona |
| RANDALL, Cora E. | chair; professor | BA, State University of New York, College at Purchase; MS, PhD, University of California, Santa Cruz |
| SOLOMON, Susan | professor adjoint | BS, Illinois Institute of Technology; MS, PhD, University of California, Berkeley |
| TOOHEY, Darin W. | professor | BA, BS, California State University, Fullerton; MS, PhD, Harvard University |
| TOON, Owen Brian | professor | AB, University of California, Berkeley; PhD, Cornell University |
| WEISS, Jeffrey B. | associate professor | BS, University of Illinois; MA., PhD, University of California, Berkeley |





Faculty: Baker RAP

| Name | Title | Education |
|----------------------|--|--|
| BARLOW, Lisa | senior instructor | BA Smith College, MA, PhD University of Colorado |
| CAREY, Cynthia | director, Baker Residential Program; professor of integrative physiology | AB, MA, Occidental College; PhD, University of Michigan |
| DIDOMENICO, Randolph | senior instructor | BA, PhD, University of Colorado |
| KEARNS, Carol | senior instructor | BS, Southampton College; MS University of New Hampshire; PhD, University of Maryland |
| OLIVERAS, Diana | instructor | BA, Dickinson College, MA, PhD University of New Mexico |
| SOUDER, Heidi | instructor | BA, Ohio Dominican University; MA, PhD, University of South Florida |

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Faculty: Chemistry and Biochemistry

| Name | Title | Education |
|-------------------------|-----------------------------|--|
| AHN, Natalie | professor | BS, University of Washington; PhD, University of California, Berkeley |
| ASIRVATHAM, Margaret R. | senior instructor | BSc, MSc, University of Madras, India; PhD, Kansas State University |
| BATEY, Robert T. | associate professor, | BS, University of California, Irvine; PhD, Massachusetts Institute of Technology |
| BIERBAUM, Veronica M. | professor | BA, Catholic University of America; PhD University of Pittsburgh |
| BIRKS, John W. | professor emeritus | |
| CARUTHERS, Marvin H. | distinguished professor | BS, Iowa State University; PhD, Northwestern University |
| CECH, Thomas R. | distinguished professor | BA, Grinnell College; PhD, University of California, Berkeley |
| DAMRAUER, Niels | professor | BS, University of Pennsylvania; PhD, University of California, Berkeley |
| DePUY, Charles H. | professor emeritus | |
| DUKOVIC, Gordana | assistant professor | BA, Rutgers University; PhD, Columbia University |
| EATON, Bruce | professor | BS, MS, University of Oregon; PhD, University of California, Berkeley |
| EAVES, Joel | assistant professor | BS, University of Wisconsin–Madison; PhD, Massachusetts Institute of Technology |
| ELLISON, G. Barney | professor | BS, Trinity College; PhD, Yale University |
| FALKE, Joseph J. | professor | BA, Earlham College; PhD, California Institute of Technology |
| FALL, R. Ray | professor emeritus | |
| FELDHEIM, Daniel | professor | BA, San Jose State University; PhD, Colorado State University. |
| GEORGE, Steven M. | professor | BS, Yale University; PhD, University of California, Berkeley |
| GIN, Douglas L. | professor | BSc, University of British Columbia; PhD, California Institute of Technology |
| GOODRICH, James A. | professor | BS, University of Scranton; PhD, Carnegie Mellon University |
| HENDRICKSON, Susan | senior instructor | BA, Bates College; PhD, Colorado State University |
| HYNES, James T. | professor | BA, Catholic University of America; PhD, Princeton University |
| JIMENEZ, Jose Luis | associate professor | BS, Universite de Technologie Compiegne; MS, Universidad de Zaragoza; PhD, Massachusetts Institute of Technology |
| JIMENEZ, Ralph | associate professor adjunct | BA, Cornell University; PhD University of Chicago |

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|------------------------|--|---|
| JONAS, David M. | professor | BS, University of California, Berkeley; PhD, Massachusetts Institute of Technology |
| KING, Edward L. | professor emeritus | |
| KNIGHT, Rob | assistant professor | BSc, University of Otago; PhD, Princeton University |
| KOCH, Tad H. | professor | BS, Ohio State University; PhD, Iowa State University |
| KOVAL, Carl Anthony | professor | BS, Juniata College; PhD, California Institute of Technology |
| KUCHTA, Robert | professor | BA, Cornell University; PhD, Brandeis University |
| KUGEL, Jennifer | assistant research professor | BA, St. Olaf College; PhD, University of Colorado |
| LINEBERGER, W. Carl | distinguished professor | BEE, MSEE, PhD, Georgia Institute of Technology |
| LIU, Xuedong | professor | BS, Shandong University, Jinan; MS, Chinese Academy of Sciences; PhD, University of Wisconsin-Madison |
| McHENRY, Charles | professor | BS, Purdue University; PhD, University of California, Santa Barbara |
| MICHL, Josef | professor | MS, Charles University; PhD, Czechoslovak Academy of Sciences |
| NESBITT, David J. | professor adjoint | BA, Harvard College; PhD, University of Colorado |
| NOZIK, Arthur | professor adjoint | BChE, Cornell University; MS, PhD, Yale University |
| OLD, William | research assistant professor | BS, University of Texas at Austin; PhD, University of Colorado Boulder |
| PALMER, Amy | associate professor | BA, Dartmouth College; MA, PhD, Stanford University |
| PARDI, Arthur | professor | AB, University of California, San Diego; PhD, University of California, Berkeley |
| PARSON, Robert P. | professor | ScB, Brown University; MS, PhD, University of Michigan |
| PETERS, Kevin | professor emeritus | |
| PIERPONT, Cortlandt G. | professor | BS, Columbia University; PhD, Brown University |
| ROY, Kristen C. | instructor | |
| RUDOLPH, Johannes | senior instructor | BS, University of Washington; PhD, Massachusetts Institute of Technology |
| RUMBLES, Garry | professor adjoint | BSc., University of Southampton; PhD, University of London |
| SAMMAKIA, Tarek | professor | BS, University of North Carolina; PhD, Yale University |
| SHOEMAKER, Richard | research professor | BA, Midland Lutheran College, Fremont, Nebraska; PhD, University of Nebraska, Lincoln |
| SIEVERS, Robert E. | director, environmental program; professor | BChem, University of Tulsa; MS, PhD, University of Illinois |
| SKODJE, Rex T. | professor | BA, Harvard University; PhD, University of Minnesota |
| SOUSA, Marcelo C. | associate professor | PharmD, PhD, University of Buenos Aires |
| TAATJES, Dylan J. | associate professor | BS, Calvin College; PhD, University of Colorado Boulder |
| TAN, Zhongping | assistant professor | BS, Peking University; PhD, Columbia University |
| TOLBERT, Bert Mills | professor emeritus | |
| TOLBERT, Margaret | distinguished professor | AB, Grinnell College; MS, University of California, Berkeley; PhD, California Institute of Technology |

| | | |
|--------------------|---------------------|---|
| VAIDA, Veronica | professor | BS, Brown University; PhD, Yale University |
| VOLKAMER, Rainer | assistant professor | BSc, PhD, Ruprecht-Karis University |
| WALBA, David M. | professor | BS, University of California, Berkeley; PhD, California Institute of Technology |
| WANG, Xiang | assistant professor | BS, University of Science and Technology of China; PhD, Boston University |
| WEBER, Mathias | associate professor | Diploma, PhD, University Kaiserslautern |
| WILSON, Irwin B. | professor emeritus | |
| WISE, Matthew | instructor | BS, Ohio University; PhD, University of Colorado Boulder |
| WUTTKE, Deborah S. | professor | BS, University of Rochester; PhD, California Institute of Technology |
| YIN, Hang | assistant professor | BS, Peking University; PhD, Yale University |
| ZHANG, Wei | assistant professor | BS, Peking University; PhD, University of Illinois |

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Faculty: Classics

| Name | Title | Education |
|--------------------------------|---------------------------------------|--|
| CAIN, Andrew J. | associate professor | BA, University of South Carolina; MA, PhD, Cornell University |
| CONLIN, Diane A. | associate professor | BA, State University of New York at Stony Brook; MA, PhD, University of Michigan |
| DUSINBERRE, Elspeth R. M. | associate professor | AB, Harvard University; PhD, University of Michigan |
| ELLIOTT, Jacqueline M. | assistant professor | BA, University College, Oxford. MA, MPhil, PhD, Columbia University |
| EVJEN, Harold D. | professor emeritus | |
| FREDRICKSMEYER, Ernst A. | professor emeritus | |
| GIBERT, John C. | associate professor | BA, Yale University; PhD, Harvard University |
| HUNT, Peter | professor | BA, Swarthmore College; MA, University of Colorado Boulder; PhD, Stanford University |
| JAMES, Sarah | assistant professor | BA, MA, University of Toronto; PhD, University of Texas, Austin |
| JONES, Stanley E. | professor emeritus | |
| KING, Joy K. | associate professor emerita | |
| KNOX, Peter E. | professor | AB, Harvard College; PhD, Harvard University |
| LANDSFORD, Tyler | instructor | BA, University of Colorado Boulder; MA, PhD, University of Washington, Seattle |
| LENSKI, Noel E. | department chair; associate professor | BA, Colorado College; MA, PhD, Princeton University |
| NEWLANDS, Carole | professor | PhD, University of California, Berkeley |
| ORLEBEKE, Alison | instructor | BA, Carleton College; MA, PhD, Princeton University |
| REITZAMMER, Laurialan B. | assistant professor | BA, Brown University; MA, PhD, University of California, Berkeley |
| SCHÜTRUMPF, Eckart E. W. | professor | PhD, University of Marburg; Habilitation in Classics, University of Marburg |
| TZAVELLA-EVJEN, Terpsichori H. | professor emerita | |



Faculty: Communication

| Name | Title | Education |
|-----------------------------|--|--|
| ASHCRAFT, Karen L. | director, Communication and Society Academic Program; professor | BA, California State University, Hayward; PhD, University of Colorado Boulder |
| BANNING, Marla Elizabeth | assistant professor | BS, MS, PhD, University of Utah |
| BOROMISZA-HABASHI, David | assistant professor | MA, Pazmany Peter Catholic University of Hungary; MA, State University of New York, Albany; PhD, University of Massachusetts |
| BOWERS, John Waite | professor emeritus | |
| BURGESS, Heidi | Instructor | BA, PhD, University of Colorado |
| BURGESS, Guy | instructor | BA, PhD, University of Colorado |
| CAIN, Melinda | instructor | BA, Mills College, Oakland; MA, American University, Washington, DC; MA, PhD, University of Denver |
| CAMPBELL, Kathleen G. | senior instructor emerita | |
| CRAIG, Robert T. | professor | BA, University of Wisconsin; MA, PhD, Michigan State University |
| DARNELL, Donald K. | professor emeritus | |
| DEETZ, Stanley A. | professor | BS, Manchester College; MA, PhD, Ohio University |
| FLORES, Lisa A. | associate professor | BA, Berry College; MA, Northern Illinois University; PhD, University of Georgia |
| FREY, Lawrence R. | professor | BS, Northwestern University; MA, PhD, University of Kansas |
| HAUSER, Gerard A. | professor emeritus | |
| JACKSON, John P. | associate professor | BA, Iowa State University; PhD, University of Minnesota |
| JACKSON, Michele H. | associate professor | BA, Macalester College; MA, PhD, University of Minnesota |
| KOSCHMANN, Matthew A. | assistant professor | BA, University of Wisconsin-Madison; MA, University of New Mexico; PhD, University of Texas at Austin |
| KUHN, Timothy R. | associate professor | BA, MA, University of Minnesota; PhD, Arizona State University |
| MALESH, Patricia M. | assistant professor | BA, MA, Salisbury State University; PhD, University of Arizona |
| SIMONSON, Peter | associate professor | AB, AM, Stanford University; PhD, University of Iowa |
| SKERSKI, Jamie | instructor | BA, Eastern Illinois University; MA, Colorado State University; PhD, Indiana University |

| | | |
|----------------------|-----------------------------|---|
| SPRAIN, Leah | assistant professor | BA, Pacific Lutheran University; MA, PhD, University of Washington |
| TAYLOR, Bryan C. | department chair; professor | BA, University of Massachusetts Amherst; MS, PhD, University of Utah |
| TOMPKINS, Elaine V. | senior instructor emerita | |
| TOMPKINS, Phillip K. | professor emeritus | |
| TRACY, Karen | professor | BS, Pennsylvania State University; MA, Bowling Green State University; PhD, University of Wisconsin |
| WHITE, Cindy H. | associate professor | BA, MA, Texas Tech University; PhD, University of Arizona |

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Faculty: Communication and Society RAP

| Name | Title | Education |
|-----------------|--------------------------------------|--|
| ASHCRAFT, Karen | director; professor of communication | BA, California State University; PhD, University of Colorado |
| BABICZ, Martin | instructor | BA, University of Connecticut; MA, Brown University; PhD, University of Colorado |
| GALE, Kendra | instructor | BA, St. Olaf College; MA, PhD, University of Minnesota |
| JAMIESON, Sara | instructor | BA, San Diego State University; MA, PhD, University of New Mexico |

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Faculty: Comparative Literature

| Name | Title | Education |
|---------------------------------|--|---|
| ACEVEDO-MUÑOZ, Ernesto | associate professor of film studies | BA, University of Puerto Rico; MA, PhD, University of Iowa |
| BRAIDER, Christopher | professor of French and Italian | BA, PhD, Trinity College, Dublin |
| COX, Jeffrey | associate vice chancellor for faculty affairs; professor of humanities and English | BA, Wesleyan University; PhD, University of Virginia |
| FARAGO, Claire | professor of art and art history | BA, Wellesley College; MA, Brown University; PhD, University of Virginia |
| FERRIS, David | professor of humanities | BA, University of Leeds, England; PhD, State University of New York at Buffalo |
| GÓMEZ, Leila G. | associate professor of Spanish | Licenciature, Universidad Nacional de Tucumán, Argentina; MA, PhD, Johns Hopkins University |
| GORDON, Paul | professor of humanities | BA, State University of New York at Buffalo; PhD, Yale University |
| GREANEY, Patrick | associate professor of German | BA, Yale College; MA, PhD, Johns Hopkins University |
| GREEN, Jeremy | associate professor of English | BA, Oxford University; PhD, Cambridge University |
| HEYDT-STEVENSON, Jillian | associate professor of English | BA, University of Colorado Boulder; MA, University of Iowa; PhD, University of Colorado Boulder |
| JACOBS, Karen | associate professor of English | BA, Washington University; PhD, University of California, Berkeley |
| KRAUEL, Javier | assistant professor of Spanish | MA, University of North Carolina at Chapel Hill; PhD, Duke University |
| KROLL, Paul | professor of Chinese | BA, MA, PhD, University of Michigan |
| LANDEIRA, Ricardo | director; professor of Spanish | BA, MA, Arizona State University; PhD, Indiana University |
| LEIDERMAN (LIPOVETSKY), Mark N. | professor | BA, MA, PhD, Ural State University |
| MAS, Ruth | assistant professor of religious studies | BA, MA, Concordia University; PhD, University of Toronto |
| MOTTE, Jr., Warren F. | professor of French and Italian | BA, University of Pennsylvania; Maitrise des Lettres, Université de Bordeaux; MA, PhD, University of Pennsylvania |
| MULLER-SIEVERS, Helmut | professor of German; director, center for humanities and the art | BA equivalent, University of Düsseldorf; MA, Free University of Berlin; PhD, Stanford University |
| OSTERMAN, Laura | associate professor of Russian | BA, State University of New York; MA, Indiana University; PhD, Yale University |
| PICKFORD, Henry | assistant professor of German | BA, Dartmouth University; MA, Stanford University; MA, University of Pittsburg; PhD, Yale University |
| RIVERS, Jr., J. E. | professor of English | AB, Davidson College; MA, PhD, University of Oregon |

| | | |
|------------------|---|--|
| SIMONSON, Peter | associate professor of communication | AB, AM, Stanford University; PhD, University of Iowa |
| SLATER, John | assistant professor of Spanish and Portuguese | BA, Earlham College, Indiana; PhD, Brandeis University |
| STIMILLI, Davide | associate professor of humanities and German | BA, Laurea, University of Pisa; MA, PhD, Yale University |
| WEBER, Beverly | assistant professor of German | BA, Gustavus Adolphus College; MA, Pennsylvania State University; PhD, University of Massachusetts Amherst |
| WHITE, Eric | associate professor of English | BA, Columbia University; MA, Cambridge University; MA, PhD, University of California, Berkeley |
| ZEMKA, Sue | professor of English | BA, Saint Louis University; PhD, Stanford University |

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Faculty: Ecology and Evolutionary Biology

| Name | Title | Education |
|-----------------------|--|---|
| ADAMS III, William | professor | BA, MA, University of Kansas; PhD, Australian National University |
| ARMSTRONG, David M. | professor emeritus | |
| BARGER, Nichole | assistant professor | BS, The Evergreen State College; MS, University of California, Berkeley; PhD, Colorado State University |
| BASEY, John M. | senior instructor | BA, California State University, Stanislaus; MS, PhD, University of Nevada |
| BEKOFF, Marc | professor emeritus | |
| BOCK, Carl L. E. | professor emeritus | |
| BOCK, Jane H. | professor emerita | |
| BONDE, Erik K. | professor emeritus | |
| BOWERS, M. Deane | professor | BA, Smith College; PhD, University of Massachusetts |
| BOWMAN, William | professor | BA, University of Colorado; MS, San Diego State University; PhD, Duke University |
| BREED, Michael D. | professor | BA, Grinnell College; MA, PhD, University of Kansas |
| CARPENTER, Harrison | senior instructor | BS, Ferris State University; MS, PhD, Michigan Technological University |
| COLLINGE, Sharon K. | professor (joint with Environmental Studies Program) | BA, Kansas State University; MS, University of Nebraska at Lincoln; PhD, Harvard University |
| CRUMPACKER, David W. | professor emeritus | |
| CRUZ, Alexander | professor | BS, City College of New York; PhD, University of Florida |
| CUNDIFF, Milford F. | associate professor | BA, PhD, University of Colorado |
| DAVIES, Kendi | assistant professor | BSc, PhD, Australian National University |
| DEMMIG-ADAMS, Barbara | professor | BA, PhD, Dr. rer. nat. habil., Universität Würzburg, Germany |
| DIGGLE, Pamela K. | professor | BA, University of California, Santa Barbara; MS, University of California, Riverside; PhD, University of California, Berkeley |
| FIERER, Noah | associate professor | BA, Oberlin College; PhD, University of California, Santa Barbara |

| | | |
|------------------------|---|---|
| FLAXMAN, Samuel M. | assistant professor | BS, PhD, Cornell University |
| FRIEDMAN, William E. | professor | AB, Oberlin College; PhD, University of California, Berkeley |
| GRANT, Michael C. | associate vice chancellor for undergraduate education; director, Norlin Scholars Program; professor | BA, MA, Texas Tech University; PhD, Duke University |
| GURALNICK, Robert | associate professor | BA, PhD, University of California, Berkeley |
| JOHNSON, Pieter T. J. | assistant professor | BS, Stanford University; PhD, University of Wisconsin |
| KEARNS, Carol | senior instructor | BS, Southampton College; MS University of New Hampshire; PhD, University of Maryland |
| KOCIOLEK, J. Patrick | director, Museum of Natural History; professor | BS, St. Mary's College of Maryland; MS, Bowling Green State University; PhD, University of Michigan |
| LEWIS, Jr., William M. | director, Center for Limnology (CIRES); professor | BS, University of North Carolina; PhD, Indiana University |
| LINHART, Yan B. | professor emeritus | |
| LYNCH, Carol B. | professor emerita | |
| MARTIN, Andrew | professor | BS, University of Arizona; MS, PhD, University of Hawaii |
| MAYER, Stephanie S. | senior instructor | BS, Stanford University; MS, University of California, Davis; PhD, University of California, Berkeley |
| McCAIN, Christy | assistant professor | BS, Humboldt State University; PhD, University of Kansas |
| McKENZIE, Valerie | assistant professor | BS, MS, University of Connecticut; PhD, University of California, Santa Barbara |
| MEDEIROS, Daniel | assistant professor | BS, University of Hawaii; PhD, California Institute of Technology |
| MELBOURNE, Brett A. | assistant professor | BSc, PhD, Australian National University |
| MITTON, Jeffrey B. | professor | BA, University of Connecticut; PhD, State University of New York at Stony Brook |
| MONSON, Russell K. | professor emeritus | |
| NICHOLS, Harvey | professor emeritus | |
| SAFRAN, Rebecca | assistant professor | BS, University of Michigan; MS, Humboldt State University; PhD, Cornell University |
| SCHMIDT, Steven K. | department chair, professor | BS, Boise State University; MS, Colorado State University; PhD, Cornell University |
| SEASTEDT, Timothy R. | professor | BA, University of Montana; MS, University of Alaska; PhD, University of Georgia |
| SMITH, Hobart M. | professor emeritus | |
| SOUTHWICK, Charles H. | professor emeritus | |
| STOCK, David | associate professor | BS, Texas A&M University; PhD, University of Illinois |

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|-------------------|--------------------|---|
| TOWNSEND, Alan | professor | BA, Amherst College; PhD, Stanford University |
| WESSMAN, Carol A. | professor | BS, Colorado State University; MS, PhD, University of Wisconsin–Madison |
| WINDELL, John T. | professor emeritus | |
| WINSTON, Paul W. | professor emeritus | |

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Faculty: Economics

| Name | Title | Education |
|-----------------------|-----------------------------|--|
| ALSTON, Lee | professor | BA, Indiana University; MA, PhD, University of Washington |
| ANTMAN, Francisca | assistant professor | BA, Harvard University; MA, PhD, Stanford University |
| BARANOV, Oleg | assistant professor | BS, Moscow State University; MS, Moscow State University; MA, New Economic School, Moscow; PhD, University of Maryland |
| BARHAM, Tania | assistant professor | BA, McGill University; MA, University of British Columbia; PhD, University of California, Berkeley |
| BOILEAU, Martin | associate professor | BS, MS, Université du Québec à Montréal; PhD, Queen's University at Kingston |
| CADENA, Brian | assistant professor | BA, Northwestern University; MA, PhD, University of Michigan |
| CARLOS, Ann M. | professor | BA, MA, University College Dublin; PhD, University of Western Ontario |
| CHEN, Yongmin | professor | BS, Zhejiang Institute of Technology; MA, People's University of China; PhD, Boston University |
| de BARTOLOMÉ, Charles | professor | BA, Cambridge University; MBA, Wharton Graduate School, University of Pennsylvania; PhD, University of Pennsylvania |
| DEMIREL, Ufuk Devrim | assistant professor | BA, Bilkent University; MA, PhD, University of Virginia |
| FALLY, Thibault | assistant professor | BA, Ecole Supérieure; MA, PhD, EHESS, Paris School of Economics |
| FLORES, Nicholas E. | department chair; professor | BA, University of Texas at Austin; MA, MS, PhD, University of California, San Diego |
| GLAHE, Fred R. | professor emeritus | |
| GRAVES, Philip E. | professor | BA, Indiana University; MA, PhD, Northwestern University |
| GREENWOOD, Michael J. | professor | BA, De Paul University; MA, PhD, Northwestern University |
| HOWE, Charles W. | professor emeritus | |
| HSIAO, Frank S. T. | professor emeritus | |
| HUGHES, Jonathan | assistant professor | BS, Duke University; MS, Cornell University; PhD, University of California, Davis |

| | | |
|-----------------------|---|---|
| YIGUN, Murat F. | professor | BS, Hacettepe University, Turkey; MBA, Boston University; MA, PhD, Brown University |
| KAEMPFER, William H. | vice provost and associate vice chancellor for academic affairs, budget, and planning; professor | BA, College of Wooster; MA, PhD, Duke University |
| KAPLAN, Jules | senior instructor | BS, University of Maryland; MA, PhD, University of Colorado Boulder. |
| KELLER, Wolfgang | professor | Diploma in Economics, University of Freiburg, Germany; PhD, Yale University |
| KIM, Jin-Hyuk | assistant professor | BA, Yonsei University; MA, Cornell University; PhD, Cornell University |
| LILLYDAHL, Jane | professor emerita | |
| LIU, Xiaodong | assistant professor | Fudan University; MA, PhD, Ohio State University |
| MARKUSEN, James R. | university distinguished professor | BA, PhD, Boston College |
| MARTINS-FILHO, Carlos | professor | BS, Federal University of Ceará, Brazil; MA, PhD, University of Tennessee |
| MASKUS, Keith E. | associate dean for the social sciences, College of Arts and Sciences; college professor of distinction; professor | BA, Knox College; MA, PhD, University of Michigan |
| McKINNISH, Terra G. | associate professor | BA, University of Richmond; MS, PhD, Carnegie Mellon University |
| McNOWN, Robert F. | professor | BA, University of California, Los Angeles; PhD, University of California, San Diego |
| MERTENS, William | instructor | BA, University of Michigan; MA, PhD, University of Colorado Boulder |
| MOREY, Edward R. | professor | BA, University of Denver; MA, University of Arizona; PhD, University of British Columbia |
| OWEN, Wyn F. | professor emeritus | |
| POULSON, Barry | professor emeritus | |
| ROPER, Don E. | professor emeritus | |
| SAVAGE, Scott | associate professor | BB, PhD, Curtin University of Technology, Australia; MEd, University of Western Australia |
| SHIUE, Carol | associate professor | BS, Massachusetts Institute of Technology; PhD, Yale University |
| SINGELL, Larry D. | professor emeritus | |
| UDIS, Bernard | professor emeritus | |
| WALDMAN, Donald M. | associate chair for graduate studies; professor | BA, Cornell University; MA, PhD, University of Wisconsin |
| ZAX, Jeffrey S. | associate chair for undergraduate studies; professor | BA, PhD, Harvard University |

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Faculty: English

| Name | Title | Education |
|---------------------|--|--|
| BAKER, Donald C. | professor emeritus | |
| BASSOFF, Bruce | professor emeritus | |
| BEECHY, Tiffany | assistant professor | AB, Harvard University; MFA, Columbia University; PhD, University of Oregon |
| BICKMAN, Martin E. | professor | AB, Amherst College; MAT, Harvard University; MA, PhD, University of Pennsylvania |
| BILLINGSLEY, Ronald | associate professor emeritus | |
| BOARDMAN, Arthur M. | professor emeritus | |
| BRADLEY, Adam | associate professor | BA, Lewis and Clark College; AM, PhD, Harvard University |
| BURGER, Douglas A. | associate professor emeritus | |
| CARR, Julie | associate professor | BA, Barnard College; MFA, New York University; PhD, University of California, Berkeley |
| COX, Jeffrey | associate vice chancellor for faculty affairs; professor (joint with Department of Humanities) | BA, Wesleyan University; PhD, University of Virginia |
| DEHELL, Jeffrey | professor | BA, MA, University of Colorado Boulder; PhD, State University of New York at Buffalo |
| DOUGLAS, Marcia | associate professor | BA, Oakwood College; MFA, Ohio State University; PhD, State University of New York at Binghamton |
| EGGERT, Katherine | associate professor | BA, Rice University; MA, PhD, University of California, Berkeley |
| EMERSON, Lori | assistant professor | BA, University of Alberta, Edmonton; MA, University of Victoria, British Columbia; MA, PhD, State University of New York at Buffalo. |
| ESCOBEDO, John | assistant professor | BA, University of California, Riverside; MA, PhD, Rice University |
| GARRITY, Jane | associate professor | AB, MA, PhD, University of California, Berkeley; MA, Queens Mary College, University of London |
| GLIMP, David | associate professor | BS, Texas A&M University; MA, University of Colorado; PhD, Johns Hopkins University |
| GOLDFARB, Sidney | professor emeritus | |
| GOODMAN, Nan | professor | BA, Princeton University; MA, University of California, Berkeley; JD, Stanford University; PhD, Harvard University |
| GORDON, Noah Eli | assistant professor | BA, MFA, University of Massachusetts, Amherst |
| GREEN, Jeremy F. | associate professor | BA, Wadham College, Oxford University; PhD, Cambridge University |

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|------------------------------|--|---|
| HASAN, Raza Ali | instructor | BA, MA, University of Texas at Austin; MFA, Syracuse University |
| HEYDT- STEVENSON, Jillian | associate professor | BA, University of Colorado; MA, University of Iowa; Ph.D., University of Colorado |
| HIGASHIDA, Cheryl | associate professor | BA, University of California, Berkeley; MA, PhD, Cornell University |
| HO, Janice Chiew Ling | assistant professor | BA, University of Queensland, Australia; MA, PhD, Cornell University |
| HOGAN, Linda | professor emerita | |
| HURLEY, Kelly K. | associate professor | BA, Reed College; PhD, Stanford University |
| JACOBS, Karen | associate professor | BA, Washington University; PhD, University of California, Berkeley |
| JONES, Stephen Graham | professor | BA, Texas Tech University; MA, University of North Texas; PhD, Florida State University |
| JUHASZ, Suzanne H. | professor emerita | |
| KATZ, Steven | professor emeritus | |
| KAWIN, Bruce F. | professor (joint, with the Department of Film Studies) | AB, Columbia University; MFA, PhD, Cornell University |
| KELSEY, Penelope | associate professor | BA, Manchester College; PhD, University of Minnesota |
| KIBBEY, Ann | associate professor | BA, Cornell University; PhD, University of Pennsylvania |
| KINNEAVY, Gerald B. | professor emeritus | |
| KLAGES, Mary | associate professor | AB, Dartmouth College; MA, PhD, Stanford University |
| KOCHER, Ruth Ellen | associate professor | BA, Pennsylvania State University; MFA, PhD, Arizona State University. |
| KRAUTH, Phillip L. | professor emeritus | |
| KRYSL, Marilyn D. | professor emerita | |
| KUSKIN, William | department chair; associate professor | BA, Vassar College; MA, PhD, University of Wisconsin–Madison |
| LABIO, Catherine | associate professor | Candidature, Facultés Universitaires Saint-Louis, Brussels; Licence, Université Libre de Bruxelles; MPhil, PhD, New York University |
| LAMOS, Steven J. | associate professor | BA, MEd, PhD, University of Illinois |
| LEVITT, Paul M. | professor | BA, MA, University of Colorado; MA, PhD, University of California, Los Angeles |
| LITTLE, Katherine C. | associate professor | BA, University of California, Berkeley; PhD, Duke University |
| MICHELSON, Peter F. | professor emeritus | |
| MOSKOVIT, Leonard | professor emeritus | |
| MUNKHOFF, Richele | assistant professor | BA, University of Maryland Baltimore County; MA, PhD, University of Wisconsin–Madison |
| MURPHY, John Leo | professor emeritus | |
| PRESTON, Cathy | senior instructor | BA, PhD, University of Colorado |

| | |
|------------------------|--------------------|
| Lynn | |
| PRESTON, Michael J. | professor emeritus |

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Faculty: Environmental Studies

| Name | Title | Education |
|--------------------|--|---|
| BLANKEN, Peter | associate professor (joint with Department of Geography) | BS, MS, McMaster University; PhD, University of British Columbia |
| BOYKOFF, Maxwell | assistant professor (joint with CIRES) | BS, The Ohio State University; PhD, University of California, Santa Cruz |
| COLLINGE, Sharon | director, professor (joint with Department of Ecology and Evolutionary Biology) | BA, Kansas State University; MS, University of Nebraska at Lincoln; PhD, Harvard University |
| CROW, Deserai | assistant professor | BS, University of Colorado, Boulder; MPA, University of Colorado, Denver; PhD, Duke University |
| DILLING, Lisa | assistant professor | BA, Harvard University; PhD, University of California, Santa Barbara |
| DOAK, Danel | professor | BA, Swarthmore College; PhD, University of Washington |
| HALE, Benjamin | assistant professor | BS, Kalamazoo College; MPA, University of Arizona; PhD, State University of New York at Stony Brook |
| LITT, Jill | assistant professor (joint with Department of Preventative Medicine and Biometrics, University of Colorado Health Sciences Center) | BA, Johns Hopkins University; PhD, Johns Hopkins School of Public Health |
| MILLER, Dale | senior instructor | BA, MA, University of Colorado Denver |
| NEFF, Jason | associate professor (joint with Department of Geology) | BA, University of Colorado Boulder; PhD, Stanford University |
| NEMERGUT, Diana | associate professor (joint with Institute of Arctic and Alpine Research) | BS, University of New Orleans; PhD, University of Colorado Boulder |
| PIELKE JR., Roger | professor (joint with CIRES) | BA, MA, PhD, University of Colorado Boulder |
| WHITE, James W. C. | professor of geological sciences (joint with Environmental Studies) | BS, Florida State University; MA, MPhil, PhD, Columbia University |





Faculty: Ethnic Studies

| Name | Title | Education |
|---------------------------|---------------------------------------|--|
| ALDAMA, Arturo J. | associate chair; associate professor | BA, Evergreen State College; MA, PhD, University of California, Berkeley |
| FACIO, Elisa | associate professor | BS, University of Santa Clara; MA, PhD, University of California, Berkeley |
| KING, William M. | professor emeritus | |
| LOCKE, Brian | instructor | BA, Whitman College; MPA, University of Washington; MA, PhD, Brown University |
| MAEDA, Daryl | department chair, associate professor | BS, Harvey Mudd College; MA, San Francisco University; MA, University of Michigan; PhD, University of Michigan |
| MARTINEZ, Doreen E. | assistant professor | BS, Mansfield University; MS, West Virginia University; CAS, PhD, Syracuse University |
| MEDAK-SALTZMAN, Danika F. | assistant professor | BA, University of Massachusetts, Amherst; MA, PhD, University of California, Berkeley |
| PEREZ, Emma | professor | BA, MA, PhD, University of California, Los Angeles |
| RABAKA, Reiland | associate professor | BFA, University of the Arts; MA, PhD, Temple University |
| SOHI, Seema | assistant professor | BA, University of California, Santa Cruz; MA, University of Vermont; PhD, University of Washington |
| WALKER, Deward | professor emeritus | |
| WILLIAMS, Bianca | assistant professor | BA, MA, PhD, Duke University |

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Faculty: Farrand RAP

| Name | Title | Education |
|---------------------|---|--|
| ANDERMAN, Elizabeth | instructor | AB, Princeton; PhD, University of Colorado Boulder |
| CHAN, Steve | director; college professor of distinction of political science | BA, Tulane University; PhD, University of Minnesota |
| COMSTOCK, Cathy | senior instructor | BA, Miami University; PhD, University of Colorado Boulder |
| GILLETT, Bernard | senior instructor | BS, University of Wisconsin, Madison; MA, University of Colorado Boulder |
| LYNCH, Mary Beth | instructor | BA, Miami University; PhD, Arizona State University |
| MARTIN, John | senior instructor | BA, Western Oregon University; MA, Pennsylvania State; PhD, University of Colorado Boulder |
| McGUIRE, Vincent | senior instructor | PhD, University of Colorado Boulder |
| SIMPSON, Michele D. | instructor | BA, Virginia State University, Petersburg; JD, Indiana University, Bloomington |

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Faculty: Film Studies

| Name | Title | Education |
|------------------------|---|---|
| ACEVEDO-MUÑOZ, Ernesto | director; associate professor | BA, University of Puerto Rico; MA, PhD, University of Iowa |
| AUGUSTE, Reece | assistant professor | BS, Portsmouth Polytechnic; MS, Marlboro College; PhD, University of Nottingham |
| BARLOW, Melinda | associate professor | BA, University of Toronto; PhD, New York University |
| BOORD, Daniel | professor | BFA, University of Oklahoma; MFA, University of California, San Diego |
| COX, Alex | assistant professor | BA, Worcester College; MFA, University of California, Los Angeles |
| GANGULY, Suranjan | associate professor | BA, University of Calcutta; MA, Jadavpur University; PhD, Purdue University |
| LIOTTA, Jeanne | assistant professor | BFA, New York University |
| PALMER, James | director of World Affairs Conference; professor | BA, Dartmouth College; MA, PhD, Claremont Graduate School |
| PETERSON, Jennifer | assistant professor | BA, University of California, Berkeley; MA, PhD, University of Chicago |
| SOLOMON, Phillip | professor | BA, State University of New York at Binghamton; MFA, Massachusetts College of Art |
| YANNACITO, Donald | senior instructor | BA, University of Colorado Boulder; MA, University of Colorado Denver |

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Faculty: French and Italian

| Name | Title | Education |
|-------------------------------|---|---|
| ARDIZZONI, Michela | assistant professor | BA, MA, University of Cagliari; MA, University of Iowa; PhD, Indiana University |
| ARNOULD-BLOOMFIELD, Elisabeth | associate professor | License ès Lettres, Maîtrise ès Lettres, University of Paris (Sorbonne); PhD, University of California, San Diego |
| BARCHILON, Jacques | professor emeritus | |
| BRAIDER, Christopher | professor | BA, PhD, Trinity College, Dublin |
| COWELL, Andrew | department chair; professor, joint with department of Linguistics | BA, Harvard University; MA, PhD, University of California, Berkeley |
| FERME, Valerio | department chair; associate professor | BA, Brown University; MA, Indiana University; PhD, University of California, Berkeley |
| FREY, Julia B. | professor emerita | |
| JUNOD, Samuel | associate professor | License ès Lettres, Diplôme d'Etudes Supérieures, University of Geneva; PhD, Johns Hopkins University |
| MAGNANINI, Suzanne | associate professor | BA, Washington University; MA, PhD, University of Chicago |
| MAYER, Edgar N. | professor emeritus | |
| MORTIMER, Wildred | professor emerita | |
| MOTTE Jr., Warren F. | professor | M. ès L., University of Bordeaux; BA, MA, PhD, University of Pennsylvania |
| REED, Cosetta Seno | assistant professor | Laurea, University of Macerata, Italy; MA, University of Virginia; PhD, University of California, Berkeley |
| YAMASHITA, Masano | assistant professor | BA, Kings College; MA, PhD, New York University |

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Faculty: Geography

| Name | Title | Education |
|-------------------------|--|---|
| ABDALATI, Waleed | director, Center for the Study of Earth from Space; professor | BS, Syracuse University; MS, PhD, University of Colorado Boulder |
| ANDERSON, Suzanne P. | associate professor | BS, University of Puget Sounds; MS, University of Washington; PhD, University of California, Berkeley |
| BARNARD, Holly | assistant professor | BS, University of Washington; MS, Colorado State University; PhD, Oregon State University |
| BARRY, Roger G. | professor emeritus | |
| BLANKEN, Peter | department chair; professor (joint with Environmental Studies program) | BSc, MSc, McMaster University; PhD, University of British Columbia |
| BRYAN, Joseph H. | assistant professor | BA, University of California, Santa Cruz; MA, PhD, University of California, Berkeley |
| BUTTENFIELD, Barbara P. | professor | BA, Clark University; MA, University of Kansas; PhD, University of Washington |
| CAINE, T. Nelson | professor emeritus | |
| DUNN, Elizabeth | associate professor | BA, University of Rochester; MA, University of Chicago; PhD, Johns Hopkins University |
| ERICKSON, Kenneth A. | professor emeritus | |
| FOOTE, Kenneth E. | professor | BA, University of Wisconsin; MA, PhD, University of Chicago |
| GOLDMAN, Mara | assistant professor | BA, Clark University; MA, University of California, Los Angeles; MS, PhD, University of Wisconsin–Madison |
| HILL, A. David | professor emeritus | |
| JAN, Najeeb | assistant professor | BA, Rhodes College; MA, PhD, University of Michigan |
| LEYK, Stefan | assistant professor | BS, MS, Technical University of Dresden; PhD; University of Zurich |
| MOLOTCH, Noah P. | assistant professor | BA, University of Colorado; MS, University of California, Santa Barbara; PhD, University of Arizona |
| OAKES, Timothy S. | director, Center for Asian Studies; professor | BA, Colby College; MA, PhD, University of Washington |
| O'LOUGHLIN, John V. | professor | BA, National University of Ireland; MS, PhD, Pennsylvania State University |
| PITLICK, John | professor | BSc, University of Washington; MSc, PhD, Colorado State University |
| RIOSMENA, Fernando | assistant professor | Licenciado en Mercadotecnica, ITESM; MA, PhD, University of Pennsylvania |
| ROGERS, Andrei | professor emeritus | |
| | | BA, Pomona College; MA, University of Maryland; PhD, University of North Carolina |

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|--------------------|---|---|
| ROOT, Elisabeth D. | assistant professor | |
| SERREZE, Mark C. | director, National Snow and Ice Center; professor | BA, MS, University of Massachusetts; PhD, University of Colorado |
| SPIELMAN, Seth E. | assistant professor | BA, Macalester College; MA, Columbia University; PhD, State University of New York at Buffalo |
| STEFFEN, Konrad | professor emeritus | |
| TRAVIS, William E. | associate professor | BS, Florida State University; MS, University of Utah; PhD, Clark University |
| VEBLEN, Thomas T. | professor | AB, MA, PhD, University of California, Berkeley |
| WILLIAMS, Mark W. | professor | BA, PhD, University of California, Santa Barbara |
| YEH, Emily | associate professor | BS, MS, Massachusetts Institute of Technology; PhD, University of California, Berkeley |

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Faculty: Geological Sciences

| Name | Title | Education |
|--------------------------|--|--|
| ABBOTT, Lon | senior instructor | BS, University of Utah; PhD, University of California, Santa Cruz |
| ANDERSON, Robert S. | professor | BS, Williams College; MS, Stanford University; PhD, University of Washington |
| ANDREWS, John T. | professor emeritus | |
| ATKINSON Jr., William W. | associate professor emeritus | |
| BILHAM, Roger G. | professor | BS, University of Wales; PhD, Cambridge University |
| BIRKELAND, Peter W. | professor emeritus | |
| BRADLEY, William C. | professor emeritus | |
| BUDD, David A. | professor | BS, College of Wooster; MS, Duke University; PhD, University of Texas at Austin |
| CHIN, Karen | associate professor | BA, University of California; MS, Montana State University; PhD, University of California, Santa Barbara |
| EBERLE, Jaelyn | associate professor | BS, University of Saskatchewan; PhD, University of Wyoming |
| EICHER, Don L. | professor emeritus | |
| FARMER, G. Lang | department chair; professor | BA, University of California, San Diego; PhD, University of California, Los Angeles |
| FLOWERS, Rebecca M. | assistant professor | BS, College of William and Mary; MS, University of Utah; PhD, Massachusetts Institute of Technology |
| GE, Shemin | professor | BSc, Wuhan University of Technology, China; MASc., The University of British Columbia, Canada; MA, PhD, Johns Hopkins University |
| GOETZ, F. H. Alexander | professor emeritus | |
| HYNEK, Brian M. | associate professor | BA, University of Northern Iowa; PhD, Washington University |
| JAKOSKY, Bruce M. | professor | BS, University of California, Los Angeles; MS, PhD, California Institute of Technology |
| JONES, Craig | associate professor | BS, California Institute of Technology; PhD, Massachusetts Institute of Technology |
| KRAUS, Mary J. | associate dean for the natural sciences; professor | BS, Yale University; MS, University of Wyoming; PhD, University of Colorado |
| LARSON, Edwin E. | professor emeritus | |
| MAHAN, Kevin | assistant professor | BSc, Auburn University; MSc, University of Utah; PhD, University of Massachusetts Amherst |
| | | BS, Yale University; PhD, Massachusetts Institute of Technology/Woods Hole Oceanographic Institute Joint |

| | | |
|-----------------------------|--|--|
| MARCHITTO Jr., Thomas M. | associate professor | Program |
| MEIER, Mark F. | professor emeritus | |
| MILLER, Gifford H. | professor | BA, PhD, University of Colorado |
| MOJZSIS, Stephen J. | associate professor | BA, MA, Boston University; PhD, Scripps Institute of Oceanography |
| MOLNAR, Peter | professor | BA, Oberlin College; PhD, Columbia University |
| MUELLER, Karl J. | associate professor | BS, MS, San Diego State University; PhD, University of Wyoming |
| MUNOZ, James L. | professor emeritus | |
| NEFF, Jason C. | associate professor | BA, University of Colorado; PhD, Stanford University |
| ROBINSON, Peter | professor emeritus | |
| RUNNELLS, Don | professor emeritus | |
| SHEEHAN, Anne | professor | BS, University of Kansas; PhD, Massachusetts Institute of Technology |
| SMITH, Dena M. | associate professor | BA, University of California, Santa Cruz; PhD, University of Arizona |
| SMYTH, Joseph R. | professor | BS, Virginia Polytechnic Institute; MS, PhD, University of Chicago |
| SPETZLER, Hartmut A. W. | professor emeritus | |
| STERN, Charles R. | professor | BS, MS, PhD, University of Chicago |
| SYVITSKI, James P. M. | professor | BSc, HBCS, Lakehead University; PhD, University of British Columbia |
| TEMPLETON, Alexis S. | associate professor | BA, MS, Dartmouth College; PhD, Stanford University |
| TILTON, Eric | professor | BA, Williams College; PhD, University of California at Santa Cruz |
| TUCKER, Gregory E. | professor | BA, Brown University; PhD, Pennsylvania State University |
| WALKER, Theodore R. | professor emeritus | |
| WEIMER, Paul | director of EMARC; Bruce D. Benson professor of petroleum geology | BA, Pomona College; MS, University of Colorado Boulder; PhD, University of Texas at Austin |
| WHITE, James W. C. | professor | BS, Florida State University; MA, MPhil, PhD, Columbia University |

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Faculty: Germanic and Slavic Languages and Literatures

| Name | Title | Education |
|---------------------------------|---|--|
| FIRESTONE, Robert | assistant professor emeritus | |
| GERWIG, Inger-Johanne | senior instructor emerita | |
| GOODMAN, Zilla | senior instructor | BA, MA, PhD, University of Cape Town |
| GREANEY, Patrick | associate professor | BA, Yale College; MA, PhD, Johns Hopkins University |
| GROVE, Vicki | senior instructor | BA, Lake Forest College; MA, PhD, University of Colorado Boulder |
| HINTZ, Saskia B. | senior instructor | Erstes Staatsexamen (MA equivalent) Pädagogische Hochschule, Flensburg; PhD, New York University |
| KOSTOGLODOVA, Elena Y. | senior instructor | BA, Uppsala College; MA, PhD, University of Colorado |
| LEE, C. Nicholas | professor emeritus | |
| LEIDERMAN (LIPOVETSKY), Mark N. | professor | BA, MA, PhD, Ural State University |
| MIKHAILOVA, Tatiana | senior instructor | BA, MA, Ural State University |
| MULLER-SIEVERS, Helmut | director, Center for Humanities and the Arts; professor | BA equiv., University of Düsseldorf; MA, Free University of Berlin; PhD, Stanford University |
| OSTERMAN, Laura J. | associate professor | BA, State University of New York at Purchase; MA, Indiana University; PhD, Yale University |
| PICKFORD, Henry | assistant professor | BA, Dartmouth College; MA, Stanford University; PhD, Yale University |
| PLANK, D. L. | professor emeritus | |
| ROMANOV, Artemi | associate professor | BA, MA, PhD, Leningrad University |
| SALYS, Rimgaila | professor | BA, University of Pennsylvania; MA, PhD, Harvard University |
| SAMPSON, Earl D. | associate professor emeritus | |
| SCHINDLER, Patricia A. | senior instructor | BA, University of Michigan; MA, University of Colorado Boulder |
| SCHMIESING, Ann C. | associate professor | BA, Willamette University; MA, University of Washington; PhD, Cambridge University |
| STIMILLI, Davide | chair, Germanic and Slavic Languages and Literatures; associate professor of German literature and comparative literature | BA, Laurea, University of Pisa; MA, PhD, Yale University |

| | | |
|----------------------|---------------------|--|
| TEITELBAUM, Benjamin | instructor | BM, Bethany College; MA, Brown University |
| WEBER, Beverly M. | assistant professor | BA, Gustavus Adolphus College; MA, Pennsylvania State University; PhD, University of Massachusetts Amherst |

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Faculty: Global Studies RAP

| Name | Title | Education |
|------------------|--------------------------------|--|
| CONZELMAN, Carol | associate director; instructor | BA, BS Miami University; MA, PhD, University of Colorado Boulder |
| MARTIN, Jessica | instructor | BA, Northwestern University; MA, PhD, University of Colorado Boulder |
| ZEILER, Thomas | director; professor of history | BA, Emory University; MA, PhD, University of Massachusetts Amherst |

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Faculty: History

| Name | Title | Education |
|-------------------------|---|--|
| ANDERSON, Fred W. | College Professor of Distinction; professor | BA, Colorado State University; AM, PhD, Harvard University |
| ANDERSON, Virginia D. | professor | BA, University of Connecticut; MA, University of East Anglia; AM, PhD, Harvard University |
| ANDREWS, Thomas G. | associate professor | BA, Yale University; MA, PhD, University of Wisconsin-Madison |
| BRUCE, Scott G. | associate professor | BA, York University; MA, PhD, Princeton University |
| CHAMBERS, Lee V. | associate professor | BA, Wellesley College; MA, PhD, University of Michigan |
| CHESTER, Lucy | associate professor | BA, MA, PhD, Yale University |
| CHRISTENSEN, Carl C. | professor emeritus | |
| DAUVERD, Celine | assistant professor | BA, Hawaii Pacific University; MA, University of Hawaii, Manoa; PhD, University of California, Los Angeles |
| ENGEL, Barbara A. | distinguished professor emerita | |
| FENN, Elizabeth A. | associate professor | BA, Duke University; MA, PhD, Yale University |
| FERRY, Robert J. | associate professor | BA, University of Colorado; MA, PhD, University of Minnesota |
| FISCHER-GALATI, Stephen | distinguished professor emeritus | |
| GAUTAM, Sanjay Kumar | assistant professor | BA, Ramraj College of Delhi University; MA, Jawaharlal Nehru University; PhD, University of Chicago |
| GERBER, Matthew D. | associate professor | BA, Yale University; MA, PhD, University of California, Berkeley |
| GROSS, David L. | professor | BA, St. Ambrose College; MA, PhD, University of Wisconsin |
| HAMMER, Paul E. J. | professor | BA, University of Auckland; PhD, Selwyn College, University of Cambridge, UK |
| HANNA, Martha | professor | BA, University of Winnipeg; MA, University of Toronto; PhD, Georgetown University |
| HILL JR., Boyd H. | professor emeritus | |
| HOHLFELDER, Robert | professor emeritus | |
| JANKOWSKI, James P. | professor emeritus | |
| KENT, Susan K. | department chair; professor | BS, Suffolk University; MA, PhD, Brandeis University |
| KIM, Kwangmin | assistant professor | BA, MA, Sogang University, South Korea; PhD, University of California, Berkeley |
| | | BA, MA, Brandeis University. PhD, University of California, Berkeley |

| | | |
|---------------------------|--|---|
| KINGSBERG, Miriam | assistant professor | |
| LEBRA, Joyce Chapman | professor emerita | |
| LESTER, Anne E. | associate professor | BA, Brown University; MA, PhD, Princeton University |
| LIM, Sungyun | assistant professor | BA, Seoul National University; MA, Seoul National University; MA, PhD, University of California, Berkeley |
| LIMERICK, Patricia Nelson | director, Center for the American West; professor | BA, University of California, Santa Cruz; MA, M.Phil., PhD, Yale University |
| MAIN, Gloria L. | professor emerita | |
| MANN, Ralph | associate professor | BA, Duke University; MA, PhD, Stanford University |
| McINTOSH, Marjorie K. | distinguished professor emerita | |
| MUKHERJEE, Mithi | associate professor | BA, Presidency College, Calcutta; MA, Jawaharlal Nehru University; PhD, University of Chicago |
| OSBORNE, Myles | assistant professor | BA, Columbia University; MA, PhD, Harvard University |
| PARADIS, David H. | instructor | BA, University of Virginia; MA, PhD, Emory University |
| PHILLIPS, George H. | professor emeritus | |
| PITTENGER, Mark A. | associate professor | BA, Denison University; MA, PhD, University of Michigan |
| RUESTOW, Edward G. | associate professor emeritus | |
| SCAMEHORN, Howard Lee | professor emeritus | |
| SCHULZINGER, Robert D. | College Professor of Distinction; professor emeritus | |
| SHINEER, David | director of Jewish Studies; professor | BA, MA, PhD, University of California, Berkeley |
| SPIRES, David N. | senior instructor emeritus | |
| SUTTER, Paul S. | associate professor | BA, Hamilton College. PhD, University of Kansas |
| WEI, William | professor | BA, Marquette University; MA, PhD, University of Michigan |
| WESTON, Timothy | associate director, Asian Studies; associate professor | BA, University of Wisconsin–Madison; MA, PhD, University of California, Berkeley |
| WILLIS, John | assistant professor | BA, University of Louisville; MA, Georgetown University; PhD, New York University |
| WOOD, Peter H. | professor adjunct | BA, Harvard College; MA, Oxford University; PhD, Harvard University |
| YONEMOTO, Marcia A. | associate professor | BA, MA, PhD, University of California, Berkeley |
| YOUNG, Phoebe S. K. | associate professor | BA, Bryn Mawr College; MA, PhD, University of California, San Diego |
| ZEILER, Thomas W. | director, International Affairs Program; professor | BA, Emory University; MA, PhD, University of Massachusetts |





Faculty: Honors

| Name | Title | Education |
|---------------------|--|---|
| ANDERSON, Fred W. | director of honors; professor of history | BA, Colorado State University; AM, PhD, Harvard University |
| BREED, Michael D. | interim director Honors Program; professor of ecology and evolutionary biology | BA, Grinnell College; MA, PhD, University of Kansas |
| BUCHWALD, Robert | instructor | BS, University of Texas at Austin; PhD, University of Colorado Boulder |
| CHADHA, Olivia | instructor | BA, University of California, Santa Barbara; MA, University of Colorado Boulder; PhD, SUNY-Binghamton |
| COLE, Penelope | instructor | BA, Hamline University; MA, University of Oregon; PhD, University of Colorado |
| DIKE, Steven | instructor | BA, University of Colorado Boulder; MA, University of Virginia; PhD, University of Colorado Boulder |
| GERLAND, Oliver | associate director of Honors Residential Program; associate professor of theatre and dance | BA, Swarthmore College; PhD, Stanford University |
| HICKCOX, Abby | instructor | BA, Earlham College; MS, University of Wisconsin-Madison; PhD, University of Colorado |
| JONES, Daniel C. L. | senior instructor | BA, Sonoma State University; MM, PhD, University of Colorado |
| KOPFF, E. Christian | associate professor | BA, Haverford College; PhD, University of North Carolina |
| MOLINARO, Nina L. | associate director of honors; associate professor of Spanish | BA, Scripps College; MA, PhD, University of Kansas |
| MOORE, George | senior instructor | BS, Lewis & Clark College, Portland, Oregon; MA, PhD, University of Colorado |
| STROM, Paul | senior instructor | BA, University of Colorado; MDiv, Austin Presbyterian Theological Seminary; PhD, University of Denver |



Honors RAP

| Name | Title | Education |
|---------------------|--|---|
| ANDERSON, Fred W. | director of Honors Residential Academic Program; professor of history | BA, Colorado State University; AM, PhD, Harvard University |
| BREED, Michael D. | interim director of Honors Residential Academic Program; professor of ecology and evolutionary biology | BA, Grinnell College; MA, PhD, University of Kansas |
| BUCHWALD, Robert | instructor | BS, University of Texas at Austin; PhD, University of Colorado Boulder |
| CHADHA, Olivia | instructor | BA, University of California, Santa Barbara; MA, University of Colorado Boulder; PhD, SUNY-Binghamton |
| COLE, Penelope | instructor | BA, Hamline University; MA, University of Oregon; PhD, University of Colorado |
| DIKE, Steven | instructor | BA, University of Colorado Boulder; MA, University of Virginia; PhD, University of Colorado Boulder |
| GERLAND, Oliver | associate director of Honors Residential Program; associate professor of theatre and dance | BA, Swarthmore College; PhD, Stanford University |
| HICKCOX, Abby | instructor | BA, Eartham College; MS, University of Wisconsin-Madison; PhD, University of Colorado |
| JONES, Daniel C. L. | senior instructor | BA, Sonoma State University; MM, PhD, University of Colorado |
| MOORE, George | senior instructor | BS, Lewis & Clark College, Portland, Oregon; MA, PhD, University of Colorado |
| STROM, Paul | faculty-in-residence of Honors Residential Academic Program; senior instructor | BA, University of Colorado; MDiv, Austin Presbyterian Theological Seminary; PhD, University of Denver |

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Faculty: Humanities

| Name | Title | Education |
|--------------------|--|--|
| BERNARDINI, Giulia | instructor of humanities and Libby Residential Academic Program | BA, Mount Holyoke College; Post-graduate diploma, Courtauld Institute, London; MA, University of Colorado Boulder |
| CARNAHAN, Shirley | senior instructor, undergraduate advisor | BA, University of California, Santa Barbara; MA, California State University, Santa Barbara; PhD, University of Colorado Boulder |
| CATLOS, Brian | associate professor of Spanish and Religious Studies | BA, MA, PhD, University of Toronto |
| COX, Jeffrey | associate vice chancellor for faculty affairs; professor of humanities and English | BA, Wesleyan University; PhD, University of Virginia |
| DABOVE, Juan Pablo | associate professor of Spanish and Portuguese | BA, Universidad Nacional de Rosario (Argentina); MA, PhD, University of Pittsburgh |
| FERRIS, David | professor of humanities | BA, University of Leeds, England; PhD, State University of New York at Buffalo |
| GERLAND, Oliver | associate professor of Theatre and Dance | BA, Swarthmore College; PhD, Stanford University |
| GORDON, Paul | professor of humanities | BA, State University of New York at Buffalo; PhD, Yale University |
| GREANEY, Patrick | associate professor of Germanic and Slavic Languages and Civilizations | BA, Yale College; MA, PhD, Johns Hopkins University |
| KROLL, Paul W. | professor of Chinese | BA, MA, PhD University of Michigan |
| MAS, Ruth | assistant professor of Religious Studies | BA, MA, Concordia University; PhD, University of Toronto |
| RABAKA, Reiland | associate professor of Ethnic Studies | BFA, University of the Arts; MA, PhD, Temple University |
| SCHÜTRUMPF, Eckart | professor of Classics | PhD, University of Marburg; Habilitation in Classics, University of Marburg |

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Faculty: Integrative Physiology

| Name | Title | Education |
|-------------------------|--|--|
| AHMED, Alaa | assistant professor | BS, American University, Cairo; PhD, University of Michigan |
| BEKOFF, Anne C. | professor | BA, Smith College; PhD, Washington University |
| BOYKO, Marie E. | senior instructor | BA, Cornell University; MA, University of Colorado |
| BYRNES, William C. | associate professor | BS, Manhattan College; MA, Appalachian State University; PhD, University of Wisconsin |
| CAREY, Cynthia | director, Baker Residential Program; professor of integrative physiology | AB, MA, Occidental College; PhD, University of Michigan |
| CASAGRANDE, Janet | instructor | BA, Drew University; PhD, Case Western Reserve University |
| DeSOUZA, Christopher | professor | BPHE, University of Toronto; MA, George Washington University; PhD, University of Maryland |
| DICKINSON, Arthur L. | professor emeritus | |
| EATON, Robert | professor emeritus | |
| EHRINGER, Marissa | associate professor | BS, BA, Indiana University; PhD, University of Colorado Denver |
| ENOKA, Roger M. | department chair; professor | Diploma PE, University of Otago, New Zealand; MS, PhD, University of Washington |
| FLESHNER, Monika R. | professor | BS, Iowa State University; MA, PhD, University of Colorado Boulder |
| FOWLER, John S. | associate professor emeritus | |
| GLEESON, Todd | director, Health Professions Residential Academic Program; professor | BS, University of California, Riverside; PhD, University of California, Irvine |
| GREENWOOD, Benjamin N. | assistant research professor | BA, MS, PhD, University of Colorado Boulder |
| HEISLER, Ruth E. | senior instructor | BS, University of Minnesota; MA, University of Colorado |
| HOBBS, Steven | instructor | BS, University of California, San Diego; PhD, University of Colorado Boulder |
| JOHNSON, Thomas E. | professor | BSc, Massachusetts Institute of Technology; PhD, University of Washington |
| KRAM, Rodger | associate professor | BA, Northwestern University; MS, Penn State University; PhD, Harvard University |
| LEBOURGEOIS, Monique K. | assistant professor | BS, MS, MA, PhD, University of Southern Mississippi |
| | | BS, Brooklyn College; PhD, University of Massachusetts |

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|------------------------|--|--|
| LINK, Christopher D. | associate professor | |
| LOWRY, Christopher A. | assistant professor | BA, University of Wyoming; PhD, Oregon State University |
| LYNCH, G. ROBERT | professor emeritus | |
| MAZZEO, Robert S. | graduate coordinator; associate professor | BS, North Carolina State University; MA, Wake Forest University; PhD, University of California, Berkeley |
| MOOD, Dale P. | professor emeritus | |
| MOORE, Russell L. | provost; professor | BS, University of California, Davis; MS, PhD, Washington State University |
| NELSON, Suzanne L. | instructor | BS, MS, University of Illinois at Champaign; MA, PhD, University of Colorado Boulder |
| NORRIS, David O. | professor emeritus | |
| ROBICHAUX, Waldean | professor emerita | |
| SAUL, Leif | senior instructor | BS, University of Texas at Austin; PhD, University of California, Berkeley |
| SEALS, Douglas R. | college professor of distinction | BS, William Jewell College; MS, PhD, University of Wisconsin–Madison |
| SHERWOOD, David E. | undergraduate coordinator; associate professor | AB, MA, San Diego State University; PhD, University of Southern California |
| STITZEL, Jerry | associate professor | BA, University of Colorado Boulder; PhD, Johns Hopkins University |
| TSAI, Pei-San | professor | BS, Texas A&M University; MA, PhD, University of California, Berkeley |
| WRIGHT Jr., Kenneth P. | associate professor | BS, University of Arizona; MA, PhD, Bowling Green State University |

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Faculty: International Affairs

| Name | Title | Education |
|---------------------|---|---|
| BEARCE, David | professor (joint with Department of Political Science) | BA, Davidson College; PhD, Ohio State University |
| CAIN, Melinda | instructor (joint with Department of Communication) | BA, Mills College; MA, PhD, University of Denver |
| CHESTER, Lucy | associate professor (joint with Department of History) | BA, MPhil, PhD, Yale University |
| DUNN, Elizabeth | associate professor (joint with Department of Geography) | BA, University of Rochester; MA, University of Chicago; PhD, Johns Hopkins University |
| HUNTER, Victoria A. | senior instructor | BA, Mount Holyoke College; PhD, University of Colorado Boulder |
| MARTIN, Jessica | instructor (joint with Global Studies Residential Academic Program) | BA, Northwestern University; PhD, University of Colorado Boulder |
| ZEILER, Thomas | program director; professor of history | BA, Emory University; MA, PhD, University of Massachusetts |

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Faculty: INVST Community

| Name | Title | Education |
|------------------|---|--|
| KUHN, Timothy | faculty director, INVST; associate professor, Department of Communication | BS, MA, University of Minnesota–Twin Cities; PhD, Arizona State University |
| MEENS, David | instructor | BA, University of Colorado Boulder; MA, University of Colorado Anschutz Medical Campus |
| SIDERIS, Sabrina | program director, instructor | BA, University of Colorado Boulder; MA, University for Peace, Costa Rica |

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Faculty: Jewish Studies

| Name | Title | Education |
|------------------|---|--|
| CATLOS, Brian A. | associate professor of religious studies | BA, University of Toronto; MA, PhD, Centre for Medieval Studies |
| GOODMAN, Zilla | senior instructor of Hebrew | BA, MA, PhD, University of Cape Town |
| LIEBER, Julie | lecturer in Jewish intellectual history | BA, MA, PhD, University of Pennsylvania |
| SACKS, Elias | assistant professor of religious studies | BA, Harvard University; MA, Columbia University; PhD, Princeton University |
| SHNEER, David | director, Program in Jewish Studies; Louis P. Singer endowed chair in Jewish History; professor of history | BA, MA, PhD, University of California, Berkeley |
| STIMILLI, Davide | chair, Germanic and Slavic Languages and Literatures; associate professor of German literature and comparative literature | BA, Laurea, University of Pisa; MA, PhD, Yale University |
| ZEMKA, Sue | professor of English | BA, St. Louis University; PhD, Stanford University |

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Faculty: Libby RAP

| Name | Title | Education |
|--------------------|--|--|
| ALPERN, Tyler | instructor | BA, Occidental College; MFA, University of Colorado Boulder |
| BERNARDINI, Giulia | instructor | BA, Mount Holyoke College; Diploma, Courtauld Institute, England; MA, University of Colorado Boulder |
| BROERSMA, Leslee | senior instructor | BA, University of California, Irvine; MFA, University of Colorado Boulder |
| LOUIE, Donna | instructor | BS, New Mexico State University; PhD, University of Health Science Center at San Antonio |
| RAJ SHARMA, Vijaya | instructor | BE, University of Roorkee, India; ME, Asian Institute of Technology, Thailand; PhD, University of Colorado Boulder |
| ROBINSON, Janet S. | instructor | BA, University of Colorado Boulder; MA, University of Colorado Denver |
| STADE, Eric | director, Libby Residential Academic Program; professor of mathematics | BA, MA, PhD, Columbia University |

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Faculty: Linguistics

| Name | Title | Education |
|------------------------------|------------------------------|---|
| BELL, Alan | associate professor emeritus | |
| COWELL, Andrew R. | department chair; professor | BA, Harvard University; PhD, University of California, Berkeley |
| FOX, Barbara A. | professor | BA, MA, PhD, University of California, Los Angeles |
| FRAJZYNGIER, Zygmunt | professor | MA, PhD, University of Warsaw; MA, University of Ghana |
| HALL, Kira | associate professor | BA, Auburn University; MA, PhD, University of California, Berkeley |
| MENN, Lise | professor emerita | |
| MICHAELIS-CUMMINGS, Laura A. | associate professor | BA, MA, PhD, University of California, Berkeley |
| NARASIMHAN, Bhuvana | associate professor | BA, University of Delhi, India; PhD, Boston University |
| PALMER, Martha | professor | BA, MA, University of Texas; PhD, University of Edinburgh |
| ROOD, David S. | professor | AB, Cornell University; MA, PhD, University of California, Berkeley |
| SCARBOROUGH, Rebecca | assistant professor | BA, Stanford University; MA, PhD, University of California, Los Angeles |
| TAYLOR, Allan R. | professor emeritus | |
| THOMAS-RUZIC, Maria | Senior instructor | BA, MA, PhD, University of Colorado |

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Faculty: Mathematics

| Name | Title | Education |
|-----------------------------|---|--|
| BAGGETT, Lawrence W. | professor emeritus | |
| BROWN, Gordon E. | associate professor emeritus | |
| CASALAINA-MARTIN, Sebastian | assistant professor | PhD, Columbia University |
| CLELLAND, Jeanne | associate chair for undergraduate studies; associate professor | BS, MA, PhD, Duke University |
| CLEMENTS, George F. | professor emeritus | |
| ELLIOTT, Peter D. | professor | BS, University of Bristol; PhD, University of Cambridge |
| ELLIS, Homer G. | associate professor | BA, MA, PhD, University of Texas |
| ENGLANDER, Janos | associate professor | DSc, Technion-ITT |
| FARSI, Carla | professor | Laurea, University of Florence; PhD, University of Maryland |
| FOX, Jeffrey S. | professor | BA, Massachusetts Institute of Technology; PhD, University of California, Berkeley |
| GOODRICH, Robert K. | professor emeritus | |
| GOROKHOVSKY, Alexander | associate professor | PhD, Ohio State University |
| GRANT, David R. | professor | AB, Princeton University; PhD, Massachusetts Institute of Technology |
| GREEN, Richard M. | professor | MA, Oxford University; MSc, PhD, University of Warwick |
| GUSTAFSON, Karl E. | professor | BS, BS, University of Colorado; PhD, University of Maryland |
| HERMES, Henry G. | professor emeritus | |
| HODGES, John H. | professor emeritus | |
| HOLLEY, Richard A. | professor emeritus | |
| IH, Su-Ion | associate professor | PhD, Brown University |

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|-----------------------|--|---|
| JONES, William B. | professor emeritus | |
| KEARNES, Keith A. | professor | BS, MS, University of California, Riverside; PhD, University of California, Berkeley |
| KUZNETSOV, Sergei | associate chair for graduate studies; associate professor | Diploma, Moscow State University; PhD, Institute of Mathematics of Ukrainian Academy of Sciences, Kiev, Mathematics and Physics; Doctor of Physics and Mathematics, Vilnius State University, Lithuania |
| LUNDELL, Albert T. | professor emeritus | |
| MACRAE, Robert Eugene | professor emeritus | |
| MALITZ, Jerome I. | professor emeritus | |
| MONK, James Donald | professor | AB, University of Chicago; BS, University of New Mexico; MA, PhD, University of California, Berkeley |
| MUIR, Carrie | instructor | BA, Graceland College; MA, University of Colorado Boulder; PhD, University of Nebraska-Lincoln |
| MYCIELSKI, Jan | professor emeritus | |
| PACKER, Judith A. | professor | BA, MA, Wesleyan University; PhD, Harvard University |
| PFLAUM, Markus | professor | PhD, Universität München |
| PRESTON, Stephen | assistant professor | BS, Pennsylvania State University; PhD, State University of New York at Stony Brook |
| RAMSAY, Arlan | professor emeritus | |
| REARICK, David F. | professor emeritus | |
| RIDER, Brian C. | associate professor | BS, Massachusetts Institute of Technology; PhD, Courant Institute of Mathematical Sciences |
| ROTH, Richard L. | professor emeritus | |
| SATHER, Duane P. | professor emeritus | |
| SCHMIDT, Wolfgang | distinguished professor emeritus | |
| SHAULIS, Delphy T. | senior instructor | BA, San Diego State University; PhD, University of Colorado Boulder |
| SPINA, Alejandro | senior instructor | PhD, La Plata National University; PhD, University of Colorado Boulder |
| STADE, Eric | director, Libby Residential Academic Program; professor of mathematics | BA, MA, PhD, Columbia University |
| STANGE, Katherine | assistant professor | PhD, Brown University |
| STRUJK, Ruth Rebekka | professor emerita | |
| SZENDREI, Agnes | professor | MSc, University of Szeged; PhD, Hungarian Academy of Sciences |
| TAYLOR, Walter F. | professor emeritus | |
| THIEM, Nathaniel | associate professor | PhD, University of Wisconsin–Madison |
| TUBBS, Robert | director, Miramontes Academic Program; associate professor | BA, University of South Florida; MA, Columbia University; PhD, Pennsylvania State University |

| | | |
|-----------------------|---------------------|---|
| WALTER, Martin E. | professor | BS, University of Redlands; MA, PhD, University of California, Irvine |
| WISE, Jonathan | assistant professor | PhD, Brown University |
| WOLKOWISKY, Jay H. | professor emeritus | |

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Faculty: Miramontes Arts and Sciences Program (MASP)

| Name | Title | Education |
|------------------|--|--|
| SANCHEZ, Leticia | associate director; instructor | BS, San Diego State University; PhD, University of Colorado Boulder |
| TUBBS, Robert | director; associate professor of mathematics | BA, University of South Florida; MA, Columbia University; PhD, Pennsylvania State University |

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Faculty: Molecular, Cellular, and Developmental Biology

| Name | Title | Education |
|------------------------|---|--|
| ABBOTT, Lois A. | senior instructor emerita | |
| BLUMENTHAL, Tom | professor | BA, Antioch College; PhD, Johns Hopkins University |
| BOSWELL, Robert E. | vice chancellor for diversity, equity, and community engagement; professor | BA, Marietta College; PhD, University of Colorado |
| CECH, Thomas R. | distinguished professor (joint appointment with Chemistry and Biochemistry) | BA, Grinnell College; PhD, University of California, Berkeley |
| CHEN, Zhe | assistant research professor | BS, Peking University; PhD, University of Colorado Boulder |
| COPLEY, Shelley D. | professor | AB, Radcliffe College; PhD, Harvard University |
| DeDECKER, Brian | assistant research professor | BS, University of Illinois, Urbana; PhD, Yale University |
| DETWEILER, Corrella S. | associate professor | AB, Bowdoin College; PhD, University of California, San Francisco |
| DOWELL-DEEN, Robin | assistant professor | BS, Texas A&M, College Station; DSc, Washington University, St. Louis |
| DUBIN, Mark W. | professor emeritus | |
| ESPINOSA, Joaquin M. | associate professor | BS, MS, National University of Mar del Plata, Argentina; PhD, University of Buenos Aires |
| FILLMAN, Christy L. | instructor | BS, Colorado State University; PhD, University of Colorado |
| FOTINO, Mircea | professor attendant rank | Licence-es-Sciences, University of Paris; PhD, University of California, Berkeley |
| GARCEA, Robert | professor | BA, Harvard; MD, University of California, San Francisco |
| GOLD, Lawrence | professor | BS, Yale University; PhD, University of Connecticut |
| GUILD, Nancy A. | professor attendant rank | BA, Colorado College; PhD, University of Colorado |
| HAN, Min | professor | BS, Peking University; PhD, University of California, Los Angeles |
| HOENGER, Andreas | associate professor | Diploma in Biology II, PhD, University of Basel, Switzerland |
| JONES, Kevin R. | associate professor | BS, University of Illinois, Urbana; PhD, University of California, Berkeley |
| JUNGE, Harald | assistant professor | BS, MS, Philipps University, Germany; PhD, Max Planck Institute and Philipps University, Germany |
| KLYMKOWSKY, Michael W. | professor | BS, Pennsylvania State University; PhD, California Institute of Technology |

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|-----------------------|--|--|
| KNIGHT, Jennifer K. | senior instructor | BA, Cornell University; PhD, University of Michigan |
| KRAUTER, Kenneth S. | professor | BS, State University of New York at Stony Brook; PhD, Albert Einstein College of Medicine |
| KUEMPEL, Peter L. | professor emeritus | |
| LEINWAND, Leslie A. | professor | BS, Cornell University; PhD, Yale University |
| MARTIN, Jennifer M. | senior instructor | BA, University of California, Davis; PhD, University of Washington |
| MASTRONARDE, David N. | professor attendant rank | BA, Amherst College; PhD, University of Colorado |
| McCONKEY, Edwin H. | professor emeritus | |
| McINTOSH, J. Richard | distinguished professor emeritus | |
| McKINSEY, Timothy A. | assistant professor adjunct | BS, University of Missouri; PhD, Vanderbilt University |
| ODORIZZI, Greg | associate professor | BS, Texas Tech University; PhD, University of California, San Diego |
| OLWIN, Bradley B. | professor | BA, University of California, San Diego; PhD, University of Washington |
| ORTH, James | assistant research professor | BS, University of Wisconsin-Eau Claire; PhD, Mayo Clinic College of Medicine |
| PACE, Norman R. | distinguished professor | BA, Indiana University; PhD, University of Illinois. BA, Indiana University; PhD, University of Illinois |
| PARK, Soyeon | assistant professor | BS, Seoul National University; PhD, Mayo Clinic College of Medicine |
| PERKINS, Thomas T. | associate professor adjunct, JILA Fellow | AB, Harvard University; PhD, Stanford University |
| POYTON, Robert O. | professor | AB, Brown University; PhD, University of California, Berkeley |
| RUNNER, Meredith | professor emeritus | |
| SHEN, Jingshi | assistant professor, | BS, Tsinghua University; PhD, Columbia University |
| SINGH, Ravinder | associate professor | BSc HAU, Hisar, India; PhD, Baylor College of Medicine |
| STAEHELIN, L. Andrew | professor emeritus | |
| STEIN, Gretchen H. | lecturer | AB, Brown University; PhD, Stanford University |
| STOWELL, Michael | associate professor | BA, Reed College; PhD, California Institute of Technology |
| SU, Tin Tin | professor | BA, Mount Holyoke College; PhD, Carnegie Mellon University |
| SUEOKA, Noboru | professor emeritus | |
| VAN BLERKOM, Jonathan | research professor | BS, City College of New York; PhD, University of Colorado |
| VOELTZ, Gia | assistant professor | BA, University of California, Santa Cruz; PhD, Yale University |
| WINEY, Mark | interim chair; professor | BS, Syracuse University; PhD, University of Wisconsin-Madison |
| WOOD, III, William B. | distinguished professor emeritus | |
| XUE, Ding | professor | BS, University of Science and Technology of China; PhD, Columbia University |

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Faculty: Museum and Field Studies

| Name | Title | Education |
|-------------------------|--|---|
| BOWERS, M. Deane | curator of entomology; professor of ecology and evolutionary biology | BA, Smith College; PhD, University of Massachusetts |
| CAIN, Christina M. | collections manager of anthropology | MS, University of Colorado |
| CHIN, Karen | curator of vertebrate paleontology; associate professor of geological sciences | BA, University of California, San Diego; MS, Montana State University; PhD, University of California, Santa Barbara |
| CORDELL, Linda S. | professor emerita | |
| COUNTER, Charles | exhibits coordinator; senior instructor adjoint | MA, Otis/Parsons School of Design |
| CULVER, Toni | collections manager of paleontology | MS, South Dakota School of Mines & Technology |
| EBERLE, Jaelyn J. | curator of vertebrate paleontology; associate professor geological sciences | BSc, University of Saskatchewan; PhD, University of Wyoming |
| GURALNIK , Robert | curator of invertebrate zoology; associate professor of ecology and evolutionary biology | BA, PhD, University of California, Berkeley |
| HAKALA, James S. H. | senior educator of the University Museum; senior instructor | BS, Western Michigan University; MAT, George Washington University |
| HARRIS, Judith A. | associate professor emerita | |
| KAGEYAMA, Mariko | collections manager of vertebrate zoology | MA, Texas Tech University |
| KARIM , Talia | collections manager of invertebrate paleontology | PhD, University of Iowa |
| KOCIOLEK, J. Patrick | director, University Museum; professor of ecology and evolutionary biology; curator of diatoms | BS, St. Mary's College, Maryland; MS, Bowling Green State University; PhD, University of Michigan |
| LEKSON, Steve | curator of anthropology; professor of anthropology | BA, Case Western Reserve; MA, Eastern New Mexico University; PhD, University of New Mexico |
| McCAIN, Christy | curator of vertebrates, assistant professor of ecology and evolutionary biology | BS, Humboldt State University, California; PhD, University of Kansas |
| REGAN, Cathy | education coordinator | PhD, University of Colorado Boulder |
| ROBINSON, Peter | professor emeritus | |
| ROHNER, John R. | professor emeritus | |
| SCOTT, Virginia L. | collections manager of entomology | MS, Michigan State University |

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|----------------------|--|--|
| SHANNON, Jennifer | curator of anthropology; assistant professor of anthropology | BA, University of California, Santa Cruz; PhD, University of Arizona |
| WEBER, William A. | professor emeritus | |
| WU, Shi-Kuei | professor emeritus | |

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Faculty: Philosophy

| Name | Title | Education |
|---------------------------|---|---|
| BAILEY, Dominic | assistant professor | BA, MA, PhD, Trinity College, Cambridge, United Kingdom |
| BARNETT, David | associate professor | BA, Emory University; BS, MA, University of Colorado Boulder; PhD, New York University |
| BARNETT, David | associate professor | BA, Emory University; BS, MA, University of Colorado Boulder; PhD, New York University |
| BOONIN, David | associate dean for arts and humanities; professor | BA, Yale University; PhD, University of Pittsburgh |
| BOONIN, Leonard G. | professor emeritus | |
| BRINDELL, Sheralee | senior instructor | BA, University of California, Los Angeles; PhD, University of Colorado Boulder |
| CHWANG, Eric | assistant professor | BA, Cornell University; PhD, Princeton University; MD, Baylor College of Medicine |
| CLELAND, Carol E. | professor | BA, University of California, Santa Barbara; PhD, Brown University |
| CROWE, Lawson | professor emeritus | |
| FISHER, John Andrew | professor emeritus | |
| FORBES, Graeme | department chair; professor | MA, University of Glasgow; PhD, New College, Oxford University |
| HANNA, Robert | professor | BA, Victoria College, University of Toronto; MPhil, PhD, Yale University |
| HEATHWOOD, Christopher | associate professor | BA, University of California, San Diego; PhD, University of Massachusetts Amherst |
| HOSEIN, Adam Omar | assistant professor | BA, University of Oxford; PhD, Massachusetts Institute of Technology |
| HUEMER, Michael | professor | BA, University of California, Berkeley; PhD, Rutgers University |
| JAGGAR, Alison M. | professor (joint appointment with women and gender studies) | BA, University of London; MLit, University of Edinburgh; PhD, State University of New York at Buffalo |
| KAUFMAN, Dan | associate professor | BA, University of Connecticut; PhD, University of Massachusetts Amherst |
| KENEVAN, Phyllis | professor emerita | |
| KOPEC, Matthew | instructor | BA, St. Mary's College of Maryland; MA, Virginia Tech; PhD, University of Wisconsin-Madison |
| KOSLICKI, Kathrin | associate professor | BA, State University of New York at Stony Brook; PhD, Massachusetts Institute of Technology |
| LEE, Mi-Kyoung (Mitzi) | associate professor | BA, Columbia University; PhD, Harvard University |
| MILLER, Ed L. | professor emeritus | |
| MILLER, Paul John William | professor emeritus | |

| | | |
|---------------------|---------------------|--|
| MILLS, Claudia | associate professor | BA, Wellesley College; PhD, Princeton University |
| MONTON, Bradley | associate professor | BA, Rice University; PhD, Princeton University |
| MORRISTON, Wesley | professor | BA, Queen's University of Belfast; PhD, Northwestern University |
| NORCROSS, Alastair | associate professor | BA, Christ Church College, Oxford University; PhD, Syracuse University |
| ODDIE, Graham James | professor | BA, University of Otago, New Zealand; PhD, University of London |
| PASNAU, Robert | professor | BA, University of Pennsylvania; PhD, Cornell University |
| RUPERT, Robert | associate professor | BA, University of Washington, Seattle; MA, PhD, University of Illinois, Chicago |
| STURGIS, Daniel | senior instructor | BA, Northwestern University; PhD, University of Colorado Boulder |
| TALBOT, Brian | instructor | BA, JD, University of California, Berkeley; PhD, University of Southern California |
| TOOLEY, Michael | professor | BA, University of Toronto; PhD, Princeton University |
| WILLIAMS, Forrest | professor emeritus | |
| WINGO, Ajume | associate professor | BA, University of California, Berkeley; PhD, University of Wisconsin–Madison |
| ZIMMERMAN, Michael | professor | BA, Louisiana State University; MA, PhD, Tulane University |

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Faculty: Physics

| Name | Title | Education |
|------------------------|---|---|
| ANDERSON, Dana Z. | professor | BSEE, Cornell University; PhD, University of Arizona |
| ASHBY, Neil | professor emeritus | |
| BARTLETT, Albert Allen | professor emeritus | |
| BARTLETT, David | professor emeritus | |
| BEALE, Paul | department chair; professor | BS, University of North Carolina; PhD, Cornell University |
| BECKER, Andreas | associate professor | Dr. rer. Nat., University of Bielefeld, Germany |
| BETTERTON, Meredith | assistant professor | BA, Princeton University; MA, PhD, Harvard University |
| BIASCA, Debra | instructor | PhD, University of Colorado Boulder |
| BOHN, John L. | research professor | BS, PhD, University of Chicago |
| CARY, John R. | professor | BA, University of California, Irvine; MA, PhD, University of California, Berkeley |
| CLARK, Noel A. | professor | BS, MS, John Carroll University; PhD, Massachusetts Institute of Technology |
| COOPER, John | professor emeritus | |
| CORNELL, Eric A. | professor adjoint | BSc, Stanford; PhD, Massachusetts Institute of Technology |
| CUMALAT, John P. | professor | BA, MA, PhD, University of California, Santa Barbara |
| CUNDIFF, Steven T. | professor adjoint | BA, Rutgers University; MS, PhD, University of Michigan |
| DE ALWIS, Senarath | professor | BSc, University of London; PhD, University of Cambridge |
| DEGRAND, Thomas A. | professor | BS, University of Tennessee; PhD, Massachusetts Institute of Technology |
| DESSAU, Daniel | professor | BS, Rice University; PhD, Stanford University |
| DeWOLFE, Oliver | assistant professor | BA, Wesleyan University; PhD, Massachusetts Institute of Technology |
| DREITLEIN, Joseph | professor emeritus | |
| DUBSON, Michael | associate chair of undergraduate studies; senior instructor | BS, University of Illinois, Urbana; PhD, Cornell University |
| FALLER, James | professor adjunct | AB, Indiana University; MA, PhD, Princeton University |
| FINKELSTEIN, Noah | professor | BA, Yale University; PhD, Princeton University |

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|----------------------|------------------------------------|---|
| FORD, William T. | professor | BA, Carleton College; PhD, Princeton University |
| FRANKLIN, Allan D. | professor | AB, Columbia College; PhD, Cornell University |
| GLASER, Matthew A. | associate professor attendant rank | BSc, Michigan State University; MS, University of Nevada, Reno; PhD, University of Colorado Boulder |
| GOLDMAN, Martin V. | professor | BA, Princeton University; MS, PhD, Harvard University |
| GREENE, Chris H. | professor | BS, University of Nebraska; MS, PhD, University of Chicago |
| GURARIE, Victor | associate professor | BA, Moscow Institute of Physics and Technology; MA, PhD, Princeton University |
| HALL, John | professor adjoint | PhD, Carnegie Institute of Technology |
| HASENFRATZ, Anna | professor | MS, PhD, L. Eotvos University, Budapest |
| HERMANN, Allen M. | professor emeritus | |
| HERMELE, Michael | assistant professor | AB, Harvard University; MS; PhD, University of California, Santa Barbara |
| HOLLAND, Murray J. | professor | BSc, MSc, Auckland University; PhD, Oxford University |
| HORANYI, Mihaly | professor | MS, PhD, Leland Eötvös University, Budapest |
| HOUGH, Loren | assistant professor | BA, Howard University; PhD, University of Colorado Boulder |
| JIN, Deborah S. | professor adjoint | AB, Princeton University; PhD, University of Chicago |
| KAPTEYN, Henry | professor | BS, Harvey Mudd; MA, Princeton University; PhD, University of California, Berkeley |
| KEMPF, Sascha | Assistant professor | PhD, Friedrich Schiller University, Jena, Germany |
| KINNEY, Edward R. | professor | SB, PhD, Massachusetts Institute of Technology |
| KNILL, Emanuel | lecturer | BS, MS, University of Massachusetts at Boston; PhD, University of Colorado |
| KRAUSHAAR, Jack J. | professor emeritus | |
| LEE, Minhyea | assistant professor | BS, MS, Pohang University of Science and Technology, South Korea; PhD, University of Chicago |
| LEHNERT, Konrad | associate professor adjoint | BS, Harvey Mudd College; PhD, University of California, Santa Barbara |
| LEVINE, Judah | professor adjoint | AB, Yeshiva College; MS, PhD, New York University |
| LEWANDOWSKI, Heather | associate professor | BS, Michigan Tech; MS, PhD, University of Colorado |
| LIND, David A. | professor emeritus | |
| MACLENNAN, Joseph E. | professor attendant rank | BS, Rhodes University; MS, PhD, University of Colorado Boulder |
| MAHANTHAPPA, K. T. | professor | BSc, Central College at Bangalore; MSc, Delhi University; PhD, Harvard University |
| MARINO, Alysia | assistant professor | BA, Princeton University; MA, PhD, University of California, Berkeley |

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Faculty: Political Science

| Name | Title | Education |
|-----------------------|--|---|
| ADLER, E. Scott | associate professor | BA, University of Michigan; MA, MPhil., PhD, Columbia University |
| ANDERSSON, Krister P. | associate professor | BA, Point Loma Nazarene University; MA, Schiller International University; PhD, Indiana University |
| AYDIN, Ayeseğül | assistant professor | BA, Istanbul University; MA, Bogazici University, Istanbul; MA, PhD, Binghamton University |
| BAIRD, Vanessa | associate professor | BA, PhD, University of Houston |
| BAKER, Andy | associate professor | BA, Valparaiso University; MA, PhD, University of Wisconsin–Madison |
| BEARCE, David H. | professor (joint appointment with the International Affairs Program) | BA, Davidson College; PhD, Ohio State University |
| BEER, Francis A. | professor emeritus | |
| BICKERS, Kenneth | professor | BA, Texas Christian University; MA, PhD, University of Wisconsin–Madison |
| BOULDING, Carew | assistant professor | BA, University of Washington, Seattle; MA, PhD, University of California, San Diego |
| BROWN, David | department chair; associate professor | BA, Doane College; MA, PhD University of California, Los Angeles |
| BROWN, Hank | professor and president emeritus | |
| BRUNNER, Ronald D. | professor emeritus | |
| CHAN, Steve | professor | BA, Tulane University; MA, PhD, University of Minnesota |
| CLARKE, Susan E. | professor | BA, California State College at Fullerton; MA, University of Southern California; PhD, University of North Carolina |
| COSTAIN, W. Douglas | senior instructor | BA (HONS), University of British Columbia; MA, PhD, Johns Hopkins University |
| COSTAIN, Anne N. | professor | AB, Brown University; MA, PhD, Johns Hopkins University |
| DONAVAN, Janet L. | senior instructor | BA, Kent State University; MA, PhD, University of Wisconsin–Madison |
| ECKART, Dennis R. | associate professor emeritus | |
| FERGUSON, Michaele L. | assistant professor | AB, Bryn Mawr College; PhD, Harvard University |
| FITCH, J. Samuel | professor | BA, Randolph-Macon College; MA, MPhil, PhD, Yale University |
| FITZGERALD, Jennifer | associate professor | BA, Indiana University; MA, University of Chicago; PhD, Brown University |
| GREENBERG, Edward | professor | BA, MA, Miami University, Ohio; PhD, University of Wisconsin |

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|-------------------------|------------------------------|---|
| S. | | |
| GRIFFIN, John D. | associate professor | BA, Boston College; JD, University of Colorado Law School; MA, PhD, Duke University |
| HARDEN, Jeffrey J. | assistant professor | BA, University of Illinois, Urbana-Champaign; MA, PhD, University of North Carolina at Chapel Hill |
| JUPILLE, Joseph | associate professor | BA, University of California, Santa Barbara; MA, Monterey Institute of International Studies; MA, PhD, University of Washington |
| KIM, Moonhawk | assistant professor | BA, University of California, Berkeley; MA, PhD, Stanford University |
| LIU, Amy | assistant professor | BA, Smith College; PhD, Emory University |
| MAPEL, David R. | associate professor | BA, Colorado College; MSc, London School of Economics; MA, PhD, Johns Hopkins University |
| McBRIDE, Conrad L. | professor emeritus | |
| McIVER, John P. | associate professor emeritus | |
| McNOWN, Lauri | senior instructor | BA, MA, PhD, University of Colorado Boulder |
| MEWES, Horst | associate professor | BA, Beloit College; MA, PhD, University of Chicago |
| SAFRAN, William | professor emeritus | |
| SCARRITT, James R. | professor emeritus | |
| SLOAN Jr., Royal Daniel | associate professor emeritus | |
| SOKHEY, Anand Edward | assistant professor | BA, Denison University; PhD, Ohio State University |
| SOKHEY, Sarah | assistant professor | BA, The Catholic University of America; MA, PhD, Ohio State University |
| STEINMO, Sven H. | professor | BA, University of California, Santa Cruz; MA, MPH, PhD, University of California, Berkeley |
| TECZA, Thaddeus J. | senior instructor emeritus | |
| TIR, Jaroslav | associate professor | BA, Bethel College, Kansas; MA, PhD, University of Illinois Urbana-Champaign |
| VANDERHEIDEN, Steven J. | associate professor | BA, Willamette University; MA, University of Utah; PhD, University of Wisconsin-Madison |
| WOLAK, Jennifer | associate professor | BS, East Michigan University; MA, PhD, University of North Carolina at Chapel Hill |

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Faculty - Psychology and Neuroscience

| Name | Title | Education |
|------------------------|------------------------------|---|
| ALLEN, David L. | senior instructor | BS, PhD, University of California, Los Angeles |
| ALPERN, Herbert P. | professor emeritus | |
| ARCH, Joanna | assistant professor | BA, Wellesley College; PhD, University of California, Los Angeles |
| BACHTELL, Ryan K. | assistant professor | BA, Bloomsberg University; MS, Central Washington University; PhD, Oregon Health and Science University |
| BANICH, Marie T. | professor | BA, MA, Tufts University; PhD, University of Chicago |
| BARRIENTOS, Ruth | assistant research professor | BS, George Mason University; PhD, George Washington University |
| BARTH, Daniel S. | professor | BA, Boston University; MA, PhD, University of California, Los Angeles |
| BERTA, Joseph E. | senior instructor | BA, MA, University of Toledo; PhD, University of Colorado |
| BLAIR, Irene V. | associate professor | BA, Loma Linda University; MS, M.Phil., PhD, Yale University |
| BLECHMAN, Elaine A. | professor emerita | |
| BLOOM, Bernard L. | professor emeritus | |
| BOURNE JR., Lyle E. | professor emeritus | |
| BRYAN, Angela | professor | BA, University of California, Los Angeles, PhD, Arizona State University |
| CAMPEAU, Serge | associate professor | BS, McGill University; MS, PhD, Yale University |
| CAREY, Gregory | associate professor | BA, Duquesne University; MA, Graduate Faculty, New School for Social Research; PhD, University of Minnesota |
| CARTWRIGHT, Desmond S. | professor emeritus | |
| COLLINS, Allan C. | professor emeritus | |
| COLUNGA, Eliana | associate professor | BS, MS, Institute of Technology, Monterrey (ITESM); PhD, Indiana University |
| COOPER, Donald | associate professor | BA, University of Colorado Boulder; PhD, Chicago Medical School |
| CORRELL, Joshua | associate professor | BA, Stanford University; MA, University of Waterloo; PhD, University of Colorado |
| CROTHERS, Edward J. | associate professor emeritus | |
| CURRAN, Tim | professor | BA, MA, PhD, University of Oregon |
| DAY, Heidi E. W. | assistant research professor | BSc, University of Bath, U.K.; MPhil, PhD, University of Cambridge, U.K |

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|-----------------------|----------------------------------|---|
| DEFRIES, John C. | professor | BS, MS, PhD, University of Illinois |
| DIMIDJIAN, Sona A. | associate professor | BA, University of Chicago; MSW, University of Pittsburg; PhD, University of Washington |
| FORWARD, John R. | associate professor emeritus | |
| GOLLIN, Eugene S. | professor emeritus | |
| HAMMOND, Kenneth R. | professor emeritus | |
| HARVEY, Jr., Lewis O. | professor | BA, Williams College; MS, PhD, Pennsylvania State University |
| HEALY, Alice F. | College Professor of Distinction | AB, Vassar College; PhD, Rockefeller University |
| HERNÁNDEZ, Theresa D. | chair, associate professor | BA, PhD, University of Texas at Austin |
| HEWITT, John K. | professor | BSc, MSc, University of Birmingham, England; PhD, University of London |
| HUTCHISON, Kent | professor | BS, MS, PhD, Oklahoma State University |
| ITO, Tiffany A. | professor | BA, University of California, Los Angeles; PhD, University of Southern California |
| JESSOR, Richard | professor emeritus | |
| JONES, Matthew C. | assistant professor | BA, University of California, Santa Barbara; MA, PhD, University of Michigan |
| JUDD, Charles M. | College Professor of Distinction | BA, Yale University; MDiv, Union Theological Seminary; MA, PhD, Columbia University |
| KELLER, Matthew C. | assistant professor | BA, University of Texas; MA, PhD, University of Michigan |
| KIM, Albert E. | assistant professor | BS, University of Illinois, Urbana-Champaign; MSc, University of Edinburgh; PhD, University of Pennsylvania |
| KING, D. Brett | senior instructor | BS, MS, PhD, Colorado State University |
| KINTSCH, Walter | professor emeritus | |
| LANDAUER, Thomas K. | research professor emeritus | |
| MAIER, Steven F. | distinguished professor | BA, New York University; MA, PhD, University of Pennsylvania |
| MARKS, Michael | research Professor | BS, University of Wisconsin; PhD, University of Michigan |
| MARTICHUSKI, Diane K. | senior instructor | BS, Lamar University; MS, PhD, Colorado State University |
| McCLELLAND, Gary H. | professor emeritus | |
| MITTAL, Vijay | assistant professor | BA, University of California, Santa Barbara; PhD, University of California, Los Angeles |
| MIYAKE, Akira | professor | BA, Osaka University; MS, PhD, Carnegie Mellon University |
| MUNAKATA, Yuko | professor | BA/BS, Stanford University; MA, PhD, Carnegie Mellon University |
| OLSON, Richard K. | professor | BA, Macaf College; MA, PhD, University of Oregon |

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Faculty: Religious Studies

| Name | Title | Education |
|---------------------|--|--|
| BIERNACKI, Lorilai | associate professor | BA, Princeton University; PhD, University of Pennsylvania |
| CATLOS, Brian | associate professor | BA, University of Toronto, University College; MA, PhD, University of Toronto, Centre for Medieval Studies |
| CHERNUS, Ira | professor | BA, Rutgers College; MA, PhD, Temple University |
| DENNY, Frederick M. | professor emeritus | |
| GAYLEY, Holly | assistant professor | BA, Brown University; MA, Naropa University; PhD, Harvard University |
| GILL, Sam D. | professor | BS, MS, Wichita State University; MA, PhD, University of Chicago |
| HOOVER, Stewart | professor of journalism and mass communication | AB, McPherson College; MA, PhD, Annenberg School of Communications, University of Pennsylvania |
| JOHNSON, Greg | department chair; associate professor | BA, University of Colorado; MA, PhD, Divinity School, University of Chicago |
| LESTER, Robert C. | professor emeritus | |
| MAS, Ruth | assistant professor | BA, MA, Concordia University; PhD, University of Toronto |
| ROSS-BRYANT, Lynn | associate professor emerita | |
| SACKS, Elias | assistant professor | AB, Harvard University; MA, Columbia University; PhD, Princeton University |
| TAYLOR, Rodney L. | professor | BA, University of Southern California; MA, University of Washington; PhD, Columbia University |
| WHITEHEAD, Deborah | assistant professor | BA, MA, Florida State University; ThD, Harvard University, The Divinity School |

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Faculty - Sewall RAP

| Name | Title | Education |
|-------------------|---|--|
| AIKEN, Ellen | instructor | BA, MA, PhD, University of Colorado Boulder |
| BABICZ, Martin | instructor | BA, University of Connecticut; MA, Brown University; PhD, University of Colorado Boulder |
| BAMFORTH, Douglas | program director; professor of anthropology | BA University of Pennsylvania; MA, PhD University of California, Santa Barbara |
| JOBIN, Nicole | instructor | BA, Colorado College; MA, PhD, University of Colorado Boulder |
| LEWIS, Chris H. | senior instructor | BA, San Diego State University; MA, PhD, University of Minnesota |
| MOORE, George | senior instructor | BS, Lewis and Clark College; MA, PhD, University of Colorado Boulder |
| RAMIREZ, Karen | associate director, senior instructor | BA, Swarthmore College; MA, PhD, University of Illinois at Urbana-Champaign |

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Faculty - Sociology

| Name | Title | Education |
|---------------------|--|---|
| ADLER, Patricia A. | professor | BA, Washington University; MA, PhD, University of California, San Diego |
| BAIR, Jennifer | assistant professor | BA, Johns Hopkins University; MA, PhD, Duke University |
| BARTOS, Otomar J. | professor emeritus | |
| BELKNAP, Joanne | professor | BA, University of Colorado; MA, PhD, Michigan State University |
| BOARDMAN, Jason | associate professor | BA, University of California, Berkeley; PhD, University of Texas at Austin |
| BROWN, Matthew C. | instructor | BA, Miami University, Oxford, Ohio; MA, University of Cincinnati; PhD, University of Colorado Boulder |
| DOWNEY, Liam C. | associate professor | BA, Oberlin College; MA, PhD, University of Arizona |
| DOWNTON, James V. | professor emeritus | |
| ELLIOTT, Delbert S. | distinguished professor emeritus | |
| GIMENEZ, Martha E. | professor emerita | |
| GOODRUM, Sarah | instructor | BA, Texas A&M University; MA, PhD, University of Texas at Austin |
| HAFFEY, Mike | instructor | BA, MA, University of Kentucky; PhD, University of Colorado |
| HARRISON, Jill | assistant professor | BA, University of California at Berkeley; PhD, University of California at Santa Cruz |
| HUBBARD, Eleanor | senior instructor emerita | |
| HUNTER, Lori M. | director of undergraduate studies; associate professor | BA, University of Washington; MA, PhD, Brown University |
| IRVINE, Leslie | director of graduate studies; associate professor | BA, MA, Florida Atlantic University; PhD, State University of New York, Stony Brook |
| KJOLSETH, J. Rolf | associate professor emeritus | |
| MAYER, Thomas | professor emeritus | |
| MENKEN, Jane | director IBS; distinguished professor | AB, University of Pennsylvania; MS, Harvard University; PhD, Princeton University |
| MILETI, Dennis S. | professor emeritus | |
| MOJOLA, Sanyu | assistant professor | BA, University of Durham; PhD, University of Chicago |
| MOLLBORN, Stefanie | associate professor | BA, Harvard University; MA, PhD, Stanford University |
| NIELSEN, Joyce M. | department chair, professor | BA, University of Colorado; MA, PhD, University of Washington |

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|--------------------------|--|--|
| PAMPEL, Fred | professor emeritus | |
| PEDERSEN-GALLEGOS, Liane | instructor | BA, Metropolitan State College of Denver; MA, PhD, University of Colorado Boulder |
| PINTO, Leonard J. | associate professor emeritus | |
| PLATTER, Adele | senior instructor emerita | |
| POTTER, Hillary | associate professor | MA, John Jay College of Criminal Justice; BA, PhD, University of Colorado |
| RADELET, Michael L. | professor | BA, Michigan State University; MA, Eastern Michigan University; PhD, Purdue University |
| REED, Isaac | assistant professor | BA, Swarthmore College; MPhil, PhD, Yale University |
| REGOLI, Robert M. | professor emeritus | |
| ROGERS, Richard G. | director, Population Program, IBS; professor | BA, University of New Mexico; MA, PhD, University of Texas at Austin |
| STEEN, Sara | associate professor | BA, Oberlin College; MA, PhD, University of Washington |
| SUE, Christina A. | assistant professor | ABA, University of Washington; MA, PhD, University of California, Los Angeles |
| TIERNEY, Kathleen J. | director, Natural Hazards Center, IBS; professor | BA, Youngstown State University; MA, PhD, Ohio State University |
| WADSWORTH, Tim | associate professor | BA, University of California, Santa Cruz; MA, PhD, University of Washington |
| WALDEN, Glenda | instructor | BSc, MA, Northern Arizona University; PhD, University of Colorado Boulder |
| WANDERER, Jules J. | professor emeritus | |
| WEHR, Paul E. | associate professor emeritus | |
| WILKINS, Amy C. | assistant professor | BA, Mount Holyoke College; MA, PhD, University of Massachusetts Amherst |

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Spanish and Portuguese

| Name | Title | Education |
|-------------------------|---|--|
| BAENA, Julio | professor | Licenciatura, Universidad Católica Andrés Bello; MS, PhD, Georgetown University |
| BECHER, Anne H. | senior instructor | BA, Carleton College; MA, University of Colorado, Boulder |
| BROWN, Esther L. | assistant professor | MA, Pennsylvania State University; PhD, University of New Mexico |
| DABOVE, Juan Pablo | associate chair for graduate studies; associate professor | MA, PhD, University of Pittsburgh |
| ELMORE, Peter | department chair; professor | Licenciatura, Pontificia Universidad Católica del Perú; PhD, University of Texas, Austin |
| ELMORE, Vivian | instructor | BA, Pontificia Universidad Católica del Perú |
| GÓMEZ, Leila G. | associate professor | Licenciatura, Universidad de Nacional de Tucumán, Argentina; MA, PhD, Johns Hopkins University |
| GREEN, Antonia | instructor | BA, MA, University of Missouri |
| HALLSTEAD, Susan R. | senior instructor | BAS, MA, PhD, University of Pittsburgh |
| HERRERO-SENÉS, Juan | assistant professor | MA, PhD, Universitat Pompeu Fabra, Spain |
| HORNO-DELGADO, Asunción | associate professor | Licenciatura, Universidad Complutense de Madrid; MA, University of New Hampshire; PhD, University of Massachusetts Amherst |
| KOPEN, Carmen | instructor | BA, Grand Valley State University; MA, University of Colorado Boulder |
| KRAUEL, Javier | assistant professor | MA, University of North Carolina at Chapel Hill; PhD, Duke University |
| LANDEIRA, Ricardo | professor | BA, MA, Arizona State University; PhD, Indiana University |
| LONG, Mary K. | senior instructor | BA, Colorado State University; MA, PhD, Princeton University |
| LOZANO, Anthony Girard | professor emeritus | |
| MALCOLM, Karen | instructor | BA, University of Arkansas; MA, University of Nebraska |
| MARTUSCELLI, Tania A. | assistant professor | BA, MA, Universidade Estadual de Campinas-Unicamp; PhD, University of Massachusetts, Amherst |
| MOLINARO, Nina L. | associate professor | BA, Scripps College; MA, PhD, University of Kansas |
| MORENO, Maria | instructor | BA, MA, Eastern Michigan University |
| PAMIES, Susanna Pérez | instructor | BA, Universitat Pompeu Fabra; MA, University of Barcelona, International University of Catalonia, Universitat Pompeu Fabra |
| | | BA, Ricardo Palma University; MA, University of Colorado, Boulder |

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|------------------------------|--|--|
| PIRAS, Cristina | instructor | |
| PRIETO, Andrés I. | associate chair for undergraduate studies; assistant professor | MA, PhD, University of Connecticut |
| RIVAS-RODRÍGUEZ, José Javier | assistant professor | BA, MA, PhD, Universidade de Santiago de Compostela, Spain |
| SCHINCARIOL, Marcelo T. | instructor | BA, MA, PhD, Universidade Estadual de Campinas |
| SILLERAS-FERNÁNDEZ, Núria | assistant professor | MA, PhD, Universitat Autònoma de Barcelona |
| SLATER, John | associate professor | BA, Earlham College, Indiana; PhD, Brandeis University |
| TABLER, Alicia | instructor | BA, MA, University of Wyoming |

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Faculty - Speech, Language, and Hearing Sciences

| Name | Title | Education |
|------------------------|---|--|
| AREHART, Kathryn | associate professor | BS, Stanford University; MS, PhD, University of Washington |
| BOWLER, Ned W. | professor emeritus | |
| BROOKE, Judith M. | clinical assistant professor | BA, Pacific University; MS, Idaho State University |
| COADY, Jeffrey | associate professor | BA, University of Rhode Island; MA, PhD, University of Rochester |
| GABBARD, Sandra | associate professor adjunct | BS, Purdue University; MA, University of Northern Colorado, PhD, University of Colorado Boulder |
| GILLEY, Phillip | assistant professor | BS, University of Texas at Austin; MS, PhD, University of Texas at Dallas |
| HARDIN, Kathryn | clinical assistant professor | BA, St. Olaf College; MA, University of Colorado Boulder |
| HAYES, Deborah | professor adjunct | BS, MA, Northwestern University; PhD, Baylor College of Medicine |
| HEDBERG, Natalie L. | professor emerita | |
| HORII, Yoshiyuki | professor emeritus | |
| HYDE-SMITH, Anne | professional research assistant | BS, The College of New Jersey; MA, University of Colorado Anschutz Medical Campus |
| JANCOSEK, Elizabeth G. | senior instructor emerita | |
| KAN, Pui Fong | assistant professor | BA, National Taiwan Normal University; MA, University of Leeds and University of Minnesota; PhD, University of Minnesota |
| KATES, James | research associate | BS, MS, Massachusetts Institute of Technology |
| LEWON, Jen | clinical assistant professor | BS, Colorado State University; MA, Northern Arizona University; MS, Arizona State University |
| MOERS, Willard | instructor | BA, MA, Gallaudet University |
| MOORE, Susan M. | director of clinical education and services; clinical professor | BA, College of New Rochelle; MA, JD, University of Denver |
| RAMIG, Lorraine Olson | professor | BS, University of Wisconsin–Oshkosh; MS, University of Wisconsin–Madison; PhD, Purdue University |
| RAMIG, Peter R. | professor | BS, MS, University of Wisconsin; PhD, Purdue University |
| RAMSBERGER, Gail | associate professor | BS, MA, University of Colorado; ScD, Boston University |
| SADAGOPAN, Neeraja | assistant professor | BSc, All India Institute of Speech and Hearing; MS, PhD, Purdue University |
| SCHICK, Brenda | professor | BS, Purdue University; MS, Washington University; PhD, Purdue University |

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|-------------------------------|------------------------------|--|
| SHARMA, Anu | professor | BSc, University of Bombay; MA, PhD, Northwestern University |
| SNYDER, Lynn | professor emerita | |
| SWEETMAN, Richard H. | professor emeritus | |
| THRASHER, Amy | clinical assistant professor | BA, Williams College; MA, University of Colorado Boulder |
| WEISS, Rita S. | professor emerita | |
| WHITNEY, Anne | clinical professor | BS, MS, Colorado State University; EdD, University of Northern Colorado |
| YOSHINAGA-ITANO, Christine | department chair; professor | BA, University of Southern California; MA., PhD, Northwestern University |

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Faculty - Theater and Dance

| Name | Title | Education |
|----------------------------|---------------------------------------|--|
| BANKS, Jason | senior instructor | BFA, University of Florida; MFA, Ohio State University |
| BERGNER, Bruce | associate chair; associate professor | BA, University of Minnesota; MFA, University of Illinois |
| COBIN, Martin T. | professor emeritus | |
| COLEMAN, Bud | department chair; associate professor | BFA, Texas Christian University; MFA, University of Utah; PhD, University of Texas at Austin |
| CRIFE, Kerry M. | senior instructor | BFA, University of Evansville; MFA, Florida State University |
| DEVIN, Richard | professor emeritus | |
| DIACHENKO, Nada | professor | BS, University of Maryland; MA, New York University |
| ELLSWORTH, Michelle | associate professor | BA, New York University; MFA, University of Colorado Boulder |
| GERLAND, Oliver | associate professor | BA, Swarthmore College; PhD, Stanford University |
| GHARTEY-TAGOE KOOTIN, Amma | assistant professor | AB, Harvard University; MA, PhD, New York University |
| HAIG, Robin | senior instructor emerita | |
| HANKIN, Toby R. | professor emeritus | |
| HARRIS, Lorenzo | artist-in-residence | |
| HENRY, Markas | associate professor | BS, Ball State University; MFA, University of Connecticut |
| IREY, Charlotte York | professor emerita | |
| LANE, Constance | instructor | BA, Beloit College |
| LESSLEY, Merrill J. | professor emeritus | |
| MANNO, Jesse | senior instructor | BA, University of Colorado |
| MEJIA, Donna | assistant professor | BA, University of Colorado; MFA, Smith College |
| MENECHINI, Tamara | assistant professor | BA, St. Mary's College; MFA, Northern Illinois University |
| NICHOLS, Lynn | senior instructor | BA, University of the South; MA, Emporia State College; PhD, University of Colorado Boulder |
| OSNES, Beth | assistant professor | BA, Marquette University; MA, PhD, University of Colorado Boulder |
| PANG, Cecilia J. | associate professor | BA, University of Guelph, Ontario, Canada; MA, San Francisco State University; PhD, University of California, Berkeley |

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|----------------------|-----------------------------|--|
| PERSONS, Chip | assistant professor | BFA, University of California, Santa Barbara; MFA, Columbia University |
| POTTS, Margaret Lee | associate professor emerita | |
| RANDALL, Erika | assistant professor | BA, University of Washington at Seattle; MFA, Ohio State University |
| SHANNON, Robert J. | senior instructor | |
| SOWAH, Nii Armah | senior instructor | BA, University of Ghana; MA, Lesley College |
| SPANIER, Nancy L. | professor emerita | |
| STARK, Theodore | senior instructor | BA, College of William and Mary; MFA, Boston University |
| SYMONS, James M. | professor emeritus | |
| WILLIAMS, Letitia S. | senior instructor emerita | |
| YANG, Daniel | professor emeritus | |

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Faculty - Western American Studies

| Name | Title | Education |
|---------------------------|---|---|
| LIMERICK, Patricia Nelson | faculty director, Center of the American West | professor of history. BA, University of California, Santa Cruz; MA, MPhil, PhD, Yale University |

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Faculty: Women and Gender Studies

| Name | Title | Education |
|--------------------------|--|--|
| BAYARD de VOLO, Lorraine | associate professor | BA, University of California, Santa Barbara; PhD, University of Michigan |
| BUFFINGTON, Robert | director; associate professor | BA, Colorado College; PhD, University of Arizona |
| JAGGAR, Alison M. | professor of distinction (joint appointment with the Department of Philosophy) | BA, University of London; MLitt, University of Edinburgh; PhD, State University of New York at Buffalo |
| MISRI, Deepthi | assistant professor | BA, University of Mumbai; MA, PhD, University of Illinois, Urbana |
| MONTOYA, Celeste | assistant professor | BS, Bradley University; MA, PhD, Washington University, St. Louis |
| POIS, Anne Marie | senior instructor emerita | |

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Faculty: Writing and Rhetoric, Program for

| Name | Title | Education |
|---------------------|--|---|
| ACKERMAN, John | associate director; associate professor of communication | BA, MA, University of Missouri; PhD, Carnegie Mellon University |
| ALBERT, Michelle | senior instructor | BA, Towson State University; MFA, Naropa University; MA, University of Colorado Denver |
| BLISS, Anne | senior instructor emerita | |
| BURGER, Eric | instructor | BA, Colby College; MFA, University of Arizona; PhD, University of Utah |
| BYRD, Sigman | instructor | BA, Sarah Lawrence College; MFA, University of Iowa, Iowa Writer's Workshop; PhD, University of Utah |
| CHARTERIS, Frances | senior instructor | BFA, School of Visual Arts, New York; MFA University of California, San Diego |
| DEBELLA, Diane | instructor | BA, James Madison University; MA, California State, San Diego |
| DICKSON, Rebecca J. | senior instructor | BA, Colorado State University; MA., PhD, University of Colorado Boulder |
| DOERSCH, Charles | instructor | BA, University of Nebraska; MFA, Columbia University |
| DOYLE, Damian | senior instructor | BA, Central Connecticut State University; MA, University College Dublin; PhD, University of Colorado Boulder |
| ELLIS, Jay | senior instructor | BA, Berklee College of Music; MA, University of Texas; PhD, New York University |
| ERON, Don | senior instructor | BA, University of Colorado Boulder; MFA, University of Iowa |
| FELDMAN, Andrea | senior instructor | BA, Cornell University; MA, PhD, University of Colorado Boulder |
| FERRELL, Tracy | instructor | BA, College of William and Mary; MA, PhD, University of Colorado Boulder |
| GINGRASS, H. Lynn | senior instructor | BA, New York University; MA, Temple University |
| GOODLOE, Amy | instructor | BA, Agnes Scott College; MEd, University of Virginia; MA, Virginia Polytechnic Institute and State University |
| GREEN, Sally | senior instructor | BA, University of Illinois, Urbana-Champaign; MA, University of Colorado Boulder |
| HERSH, Orly | instructor | BA, Mount Holyoke College; MA, Northern Arizona University |
| HOUSE, Veronica | associate director; instructor | BA, Wellesley College; MFA University of Maryland at College Park; PhD, University of Texas at Austin |
| KLINGER, Eric | associate director; instructor | BA, MA, New Mexico State University |
| KLINGER, Eliza | instructor | BA, Richard Stockton College of New Jersey; MA, New Mexico State University |
| KNOWLTON, Ginger | senior instructor | BA, Kenyon College; MA, University of Colorado Boulder; PhD, University of Denver |
| KRATZKE, Peter | senior instructor | BA, MA, University of Washington; PhD, University of Kentucky |

| | | |
|----------------------|--|---|
| KUNCE, Catherine | senior instructor | BA, Colorado College; MA, PhD, University of Denver |
| LAMOS, Steven | associate director; associate professor of English | BA, MA, PhD, University of Illinois |
| LASSWELL, Catherine | instructor | BA, Michigan State University, MEd, University of Vermont |
| LYONS, Tim | instructor | BA, Occidental College; MA, Johns Hopkins University |
| MACDONALD, Christine | senior instructor | BA, Pomona College; MA, PhD, University of Colorado Boulder |
| MALESH, Patricia | associate director; assistant professor of communication | BA, MA, Salisbury State University; PhD, University of Arizona |
| McBREARTY, Robert | instructor | BA, Instituto Allende/University of Guanajuato; MFA, University of Iowa |
| NORGAARD, Rolf | associate director; senior instructor | BA, Wesleyan University; MA, PhD, Stanford University |
| PEARCE, Lonni | associate director; senior instructor | BA, William Jewell College; MA, University of Missouri, Kansas City; PhD, University of Arizona |
| PIELOW, Kathryn | senior instructor | BA, Augustana College; JD, University of South Dakota |
| REILLY, Kerry | senior instructor | BA, Providence College; MA, University of New Hampshire; MFA, University of Iowa |
| RIVERA, John-Michael | director; associate professor of English | BA, University of California, Berkeley; MA, University of Houston; PhD, University of Texas at Austin |
| SCHABERG, Petger | senior instructor | BA, DePaul University; MA, University of Colorado Boulder |
| SULLIVAN, Patricia | professor of English | BA, MA, University of Utah; PhD, Ohio State University |
| VON DER NUELL, Tobin | instructor | BA, San Diego State University; MA, University of Colorado Boulder |
| WALKER, James | instructor | BA, University of California, Riverside; MA, PhD, University of Colorado Boulder |
| WENGER, Paula | senior instructor | BA, University of Northern Colorado; MA, University of Denver; MA, Miami University |
| WILKERSON, Donald H. | senior instructor | BA, MA, University of Colorado Boulder |
| ZIGMOND, Rosalyn | instructor | BA, University of Michigan; MA, PhD, University of Colorado Denver |

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Faculty: Business

| Name | Title | Education |
|----------------------|--|--|
| SINHA, Atanu R. | associate professor of marketing | BSta, MStat, Indian Statistical Institute; PhD, New York University |
| SMITH, Al W. | associate dean, undergraduate affairs | BS, MA, East Carolina University; PhD, University of North Carolina at Greensboro |
| SOCKELL, Donna | director, Center for Education on Social Responsibility; senior instructor | BA, Union College; MLR, PhD, Cornell University |
| SORENSEN, Ralph Z. | professor of management emeritus | |
| SPINETTO, Richard D. | associate professor of operations management emeritus | |
| STANTON, William J. | professor of marketing emeritus | |
| STUTZER, Michael | professor of finance | BA, PhD, University of Minnesota |
| SUN, Yacheng | assistant professor of marketing | BS, Huazhong University; MA, PhD, Indiana University |
| TAYLOR, Robert H. | professor of marketing emeritus | |
| THIBODEAU, Thomas | academic director of real estate, professor of finance | BS, University of Hartford; MA, MS, PhD, State University of New York at Stony Brook |
| TONG, Tony | associate professor of management and entrepreneurship | BA, Shanghai Institute of Foreign Trade; MSC, National University of Singapore; MA, PhD, Ohio State University |
| TRACY, John A. | professor of accounting emeritus | |
| VOSSSEN, Thomas | associate professor of operations management | MS, Eindhoven University; PhD, University of Maryland |
| WILLIAMS, Lawrence | assistant professor of marketing | AB, Harvard University; MPh, PhD, Yale University |
| WINN, Daryl | associate professor of business economics emeritus | |
| WOBBEKIND, Richard | associate dean for external relations; director of the business research division; associate professor of business economics | BA, Bucknell University; MA, PhD, University of Colorado |

| | | |
|----------------|---|---|
| YAO, Xin (Eva) | assistant professor of management and entrepreneurship | BA , Renmin University of China; PhD, University of Washington |
| YORK, Jeffrey | assistant professor of management and entrepreneurship | BA, University of Georgia; MBA University of Tennessee; PhD, University of Virginia |
| ZENDER, Jaime | finance division chair; William H. Baugh Professor of Finance | BA, University of Colorado; MA, MPhil, PhD, Yale University |
| ZHANG, Dan | assistant professor of operations management | BE, Chongqing University; PhD, University of Minnesota |

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Courses

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ARSC-1000 (3-4) Expository Writing

Develops college-level reading, writing, and thinking. Students are asked to read critically, then construct written responses that are revised and crafted into more formal essays and position papers. Offered through the Student Academic Services Center. Prereq., program coordinator consent required.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1080 (4) College Writing and Research

Introduces academic and professional genres through the research and inquiry process. Students practice close reading, oral presentation, drafting, synthesis, analysis and research skills in discussion, writing workshops, and one-on-one conferences. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1081 (1) SASC Coseminar: College Writing and Research

One-credit seminar provides extended instruction in written composition for students enrolled in ARSC 1080. Graded assignments enrich students' understanding of genre, organization, research skills, and grammar. Coreq., ARSC 1080.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1150 (3) Writing in Arts and Sciences

Emphasizes the development of effective writing skills with instruction provided in expository and analytical writing. Reviews basic elements of grammar, syntax, and composition as needed. May be repeated up to 6 total credit hours. Approved for GT-CO2. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Arts & Sciences Admin | Writing

ARSC-1200 (1-3) Topics in Arts and Sciences

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-1400 (1) MASP Coseminar: Chemistry 1 & 2

Supplements and strengthens student experiences in chemistry. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1420 (1) MASP Coseminar: Introduction to EEB

Designed to supplement and strengthen student experiences in EBIO 1210 and 1220. Allows particularly gifted students an opportunity to extend their understanding of the subject and possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1432 (1) MASP Coseminar: Economics

Designed to supplement and strengthen student experiences in microeconomics. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in social science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1440 (1) MASP Coseminar: Mathematics

Offers an unusual and essential opportunity for students to receive small-group enrichment and reinforcement. Supplements and strengthens student experiences in mathematics, allowing particularly gifted students an opportunity to extend their understanding of the subject in a supportive environment, and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1460 (1) MASP Coseminar: Introduction to Mcd Biology

Supplements and strengthens student experiences in MCDB 1150 and 2150. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1480 (1) MASP Seminar: Exploration of Public Discourse through the Social Sciences

Fosters an appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, and outside activities illustrate the interconnections between different bodies of knowledge. Emphasizes relationships between the humanities/social sciences and the real world. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1490 (1) MASP Seminar: Activating the Humanities and Social Sciences

Building on ARSC 1480, enhances students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentation, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is on actively using knowledge of humanities and social sciences in a variety of ways. Prereq., ARSC 1480. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1492 (1-3) MASP Research Seminar

Building on ARSP 1490, this course seeks to enhance students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentations, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis placed on actively using knowledge of humanities and social science in a variety of ways. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1600 (1) The University of Colorado Experience

Provides an effective transition to the university by giving students a solid base for developing scholarship, citizenship, decision making, and involvement in their university community. Topics include academic and campus resources, safety, health, and diversity.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-1710 (1) Calculus Bridge Course

Provides motivated pre-calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in pre-calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in high school mathematics. Coreq., MATH 1001/1021.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-1720 (1) SASC Coseminar: Calculus Work Group

This 1-credit seminar provides motivated calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in pre-calculus mathematics. Recommended prereq., A/B average in pre-calculus sequence. Coreq., MATH1300.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-1800 (3) Methods of Inquiry

Introduces students to methodologies used in different academic disciplines, e.g., how a paleographer dates a manuscript. Course is team-taught. Students must also enroll in two of four co-requisite course sections, all in different areas of the core curriculum. The co-requisite course sections are listed in the online Schedule Planner.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-1810 (1) Open Option Seminar: Academic Exploration and Critical Decision Making

Survey the major exploration process in a guided and intentional way, critically evaluate your strengths and interests, learn decision making skills, and learn academic skills necessary to succeed in a major discipline. Complete the course well equipped to declare a major of interest in a timely fashion and to supplement your degree with study abroad, undergraduate research and/or co-curricular experiences. Offered Pass/Fail only. Restricted to Arts and Sciences Open Option students only. Prerequisites: Restricted to Arts and Sciences Open Option students only.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-2000 (3) Ways of Knowing: Constructions of Knowledge in the Academy and Beyond

Explores different ways of knowing from interdisciplinary, cross-cultural perspectives. Course begins with personal interrogations of students' primary learning modes. It goes on to examine cultural assumptions about schooling, learning and knowledge, juxtaposing western and eastern philosophies of knowing and looking at how gender, race, class, and other categories of identity shape and interpret concepts of knowledge. Restricted to Norlin Scholars only; department consent required. Same as NRLN 2000. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-2274 (3) Peer Counseling

Introduction to basic peer education and counseling theory and techniques. Students learn experientially by practicing a variety of skills in an informal atmosphere. The material learned is valuable

to students professionally (as employee or supervisor in any field or as helping professional) regardless of career path. Students increase self-awareness and apply it to their own lives. Offered Fall semesters only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-2400 (1) MASP Coseminar: Organic Chemistry

Supplements and strengthens student experiences in organic chemistry. Allows gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-2470 (1) MASP Coseminar: Physics 1 and 2

Supplements and strengthens student experiences in physics. Allows particularly gifted students an opportunity to extend their understanding of the subjects and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-3001 (6) Social Engagement & Human Rights: The South Africa Model

Examines the concept of reconciliation from a multidimensional and multidisciplinary approach as it specifically contributes to subjects of difference, inequality, and historical legacies of intractable relations. Using an experiential approach, the study of reconciliation is situated in an international environment in which reconciliation is being practiced and later in the United States context. Recommended prereq., any course with substantive race, class, gender, difference, and inequality emphasis. Offered through Study Abroad Program. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-3100 (3) Multicultural Perspective and Academic Discourse

Teaches students how to write academic papers related to race, class, gender, sexuality, and other areas of cultural identity. Students acquire expertise on issues through readings, guided discussion, and research and practice oral presentation skills, drafting, and workshopping of papers. Prereq., lower level writing course(s) or waiver. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Arts & Sciences Admin | Writing

ARSC-3600 (3) Diversity Issues: Higher Education

Uses Internet dialogue, computing, and media technology to improve communication and develop research and inquiry skills and critical thinking. Race, class, gender, and sexual orientation issues are addressed to foster understanding of university codes of inquiry and modes of interaction in scholarly communities. Prereq., admission to McNair Program, junior standing, minimum GPA of 2.50, and strong interest in graduate school).

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Courses

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ARSC-1000 (3-4) Expository Writing

Develops college-level reading, writing, and thinking. Students are asked to read critically, then construct written responses that are revised and crafted into more formal essays and position papers. Offered through the Student Academic Services Center. Prereq., program coordinator consent required.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1080 (4) College Writing and Research

Introduces academic and professional genres through the research and inquiry process. Students practice close reading, oral presentation, drafting, synthesis, analysis and research skills in discussion, writing workshops, and one-on-one conferences. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1081 (1) SASC Coseminar: College Writing and Research

One-credit seminar provides extended instruction in written composition for students enrolled in ARSC 1080. Graded assignments enrich students' understanding of genre, organization, research skills, and grammar. Coreq., ARSC 1080.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1150 (3) Writing in Arts and Sciences

Emphasizes the development of effective writing skills with instruction provided in expository and analytical writing. Reviews basic elements of grammar, syntax, and composition as needed. May be repeated up to 6 total credit hours. Approved for GT-CO2. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Arts & Sciences Admin | Writing

ARSC-3100 (3) Multicultural Perspective and Academic Discourse

Teaches students how to write academic papers related to race, class, gender, sexuality, and other areas of cultural identity. Students acquire expertise on issues through readings, guided discussion, and research and practice oral presentation skills, drafting, and workshopping of papers. Prereq., lower level writing course(s) or waiver. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Arts & Sciences Admin | Writing

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Courses

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ASTR-1000 (3) The Solar System

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and the origin of life. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory and Fiske Planetarium. Similar to ASTR 1010, without lab. Also similar to ASTR 1030. Formerly ASTR 1110. Students may receive credit for only one of ASTR 1000, 1110, 1010, or 1030. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-1010 (4) Introductory Astronomy 1

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1000, but with additional lab experience. Also similar to ASTR 1030. Students may receive credit for only one of ASTR 1010, 1000, 1110, or 1030. Meets MAPS requirement for natural science: lab or non-lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-1020 (4) Introductory Astronomy 2

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1200, but with recitation and sequence link to ASTR 1010. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1020, 1200, 1120, or 1040. Prereq., ASTR 1010 or 1000. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-1030 (4) Accelerated Introductory Astronomy 1

Covers principles of modern astronomy summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1030, 1010, 1000, or 1110. Similar to ASTR 1010 and 1000, but taught at a higher intellectual level, including a significant amount of quantitative analysis. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-1040 (4) Accelerated Introductory Astronomy 2

Covers principles of modern astronomy summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observing sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Includes a recitation. Prereq., ASTR 1030. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1020, 1040, 1200, or 1120. Similar to ASTR 1020 and 1200 but taught at a higher intellectual level including a significant amount of quantitative analysis. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-1200 (3) Stars and Galaxies

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, neutron stars, black holes, interstellar gas, galaxies, quasars, and the structure and origins of the universe. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory. Formerly ASTR 1120. Similar to ASTR 1020, without sequence link to ASTR 1010 or recitation. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1200, 1120, 1020, or 1040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2000 (3) Ancient Astronomies of the World

Documents the numerous ways in which observational astronomy and cosmology have been features of ancient cultures. Includes naked eye astronomy, archaeoastronomy, ethnoastronomy, concepts of time, calendrics, cosmogony, and cosmology. Approved for arts and sciences core curriculum: natural science or human diversity.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2010 (3) Modern Cosmology---Origin and Structure of the Universe

Introduces modern cosmology to nonscience majors. Covers the Big Bang; the age, size, and structure of the universe; and the origin of the elements and of stars, galaxies, the solar system, and life. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2020 (3) Introduction to Space Astronomy

Discusses reasons for making astronomical observations from space, scientific goals, practical requirements for placing instruments in space, politics of starting new programs, and selected missions. Prereq., ASTR 1010, 1020, 1000, or 1200. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2030 (3) Black Holes

Black holes are one of the most bizarre phenomena of nature. Students are introduced to the predicted properties of black holes, astronomical evidence for their existence and formation, and modern ideas about space, time, and gravity. Approved for the arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2040 (3) The Search for Life in the Universe

Introduces the scientific basis for the possible existence of life elsewhere in the universe. Includes origin and evolution of life on Earth and the search for evidence of life in our solar system, especially Mars and Jupiter's moon Europa. Discusses the conditions necessary for life and whether they might arise on planets around other stars. Same as GEOL 2040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2500 (3) Gateway to Space

Introduces the basics of atmospheric and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Recommended prereqs., APPM 1360 or MATH 2300 and PHYS 1120 or ASTR 1040. Same as ASEN 1400. Similar to ASEN 4500. Prerequisites: Restricted to Astronomy or Physics majors only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2600 (3) Computational Techniques

Introduces practical research skills and provides orientation to computational tools commonly used in research by astrophysicists and planetary scientists.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-2840 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3300 (3) Extraterrestrial Life

Discusses the scientific basis for the possible existence of extraterrestrial life. Includes origin and evolution of life on Earth; possibility of life elsewhere in the solar system, including Mars; and the possibility of life on planets around other stars. Prereq., one-year sequence in a natural science. Same as GEOL 3300.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3510 (4) Observations and Instrumentation 1

Lab course in astronomical observation and instrumentation. Hands-on exercises include obtaining and analyzing multi-wavelength data, basic optical design and instrumentation, and statistical analysis of data, with emphasis on imaging applications. A significant number of night time observation sessions are required. Prereq. or coreq., Calculus 2 (MATH 2300 or APPM 1360), one year of college physics, and one year of college astronomy. Elective for APS majors. Elective for APS minors on space available basis. Prerequisites: Restricted to Astrophysics (ASTR) majors only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3520 (4) Observations and Instrumentation 2

Lab course in observation and instrumentation. Hands-on exercises include obtaining and analyzing multi-wavelength data, optical design and instrumentation, and statistical analysis, with emphasis on spectroscopy. A significant number of night time observation sessions are required. Prereq., ASTR 3510 or instructor consent. Elective for APS majors. Elective for APS minors on space available basis. Prerequisites: Restricted to Astrophysics (ASTR) majors only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3710 (3) Formation & Dynamics of Planetary Systems

Covers the origin of planetary systems and their dynamical evolution. Topics include the physics and chemistry of planetary formation, orbital mechanics, and extrasolar planets. ASTR 3710, 3720, and 3750 may be taken in any order. Prereqs., PHYS 1110 and 1120, and calculus (MATH 1300 and 2300, or APPM 1350 and 1360). Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3720 (3) Planets and Their Atmospheres

Explores the physics and chemistry of the atmospheres of Mars, Venus, Jupiter, Saturn, and Titan. Examines evolution of the atmospheres of Earth, Venus, and Mars; and the escape of gases from the Galilean satellites, Titan and Mars; the orbital characteristics of moons, planets, and comets. Uses recent results of space exploration. Prereqs., PHYS 1110 and 1120, and either MATH 1300 and 2300, or APPM 1350 and 1360. Same as ATOC 3720. Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3730 (3) Astrophysics 1 ---Stellar and Interstellar

ASTR 3730 and 3830 provide a year-long introduction to physical processes, observations, and current research methods in stellar, interstellar, galactic, and extra-galactic astrophysics, with astronomical applications of gravity, radiation processes, spectroscopy, gas dynamics, and plasma physics. Prereqs. or coreqs., PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3740 (3) Cosmology and Relativity

Special and general relativity as applied to astrophysics, cosmological models, observational cosmology, experimental relativity, and the early universe. Prereqs. or coreqs., PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3750 (3) Planets, Moons, and Rings

Approaches the physics of planets, emphasizing their surfaces, satellites, and rings. Topics include formation and evolution of planetary surfaces, history of the terrestrial planets, and dynamics of planetary rings. Both ASTR 3720 and ASTR 3750 may be taken for credit in any order. Prereqs., PHYS 1110 and 1120, and calculus (MATH 1300 and 2300, or APPM 1350 and 1360). Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3760 (3) Solar and Space Physics

Explores the physical processes linking the Sun and planets, emphasizing solar radiative and particulate variability and the response of planetary atmospheres and magnetospheres. Topics include the solar dynamo, solar wind, coronal mass ejections, cosmic ray modulation, magnetospheres, aurora, the space environment, and climate variability. Prereqs./coreqs., PHYS 2130 or 2170 and MATH 2400 or APPM 2350. Recommended prereq., PHYS 3310. Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3800 (3) Introduction to Scientific Data Analysis and Computing

Covers analytical and numerical techniques used in scientific data analysis, including statistical analysis, error analysis, functional fitting, spectral analysis, image processing, and testing theoretical compliance. Examples are from space-based and ground-based astronomy. Prereqs. or coreqs., ASTR 1040 or equivalent, PHYS 1120 or equivalent, and MATH 2400 or APPM 2350. Elective for APS major.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-3830 (3) Astrophysics 2---Galactic and Extragalactic

ASTR 3730 and 3830 provide a year-long introduction to physical processes, observations, and current research methods in stellar, interstellar, galactic, and extragalactic astrophysics, with astronomical applications of gravity, radiation processes, spectroscopy, gas dynamics, and plasma physics. Prereqs. or coreqs., ASTR 3730, and PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

College of Arts & Sciences | Astrophysical & Planetary Sciences

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COMR-1000 (1) Communication and Community

Introduction to how communication builds community by creating and sharing meaning. Examination of communication practices at the interpersonal level (friends and family), the group level (teams, classrooms and organizations) and the societal level (citizenship, social change, mass media). Restricted to students in the Communication Residential Academic Program.

[College of Arts & Sciences](#)
[Communication Residential Academic Program](#)

COMR-1100 (1) RAP Community Leadership Practicum

Examines relationships between competent communication and effective leadership in the context of the Communication and Society RAP. Upon completion of the Community Leadership RAP practicum, the student will be able to identify, discuss, demonstrate, and critique effective communication skills as they apply to many different leadership opportunities within the RAP. Restricted to students in the Communication Residential Academic Program.

[College of Arts & Sciences](#)
[Communication Residential Academic Program](#)

COMR-1800 (3) Visual Literacy: Images and Ideologies

Explores the relationship between visual images and cultural values, including how we process visual information, the evolution of conventions in various media, common visual portrayals, and ethical issues. Restricted to students in the Communication Residential Academic Program. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
[Communication Residential Academic Program](#)

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ARSC-1000 (3-4) Expository Writing

Develops college-level reading, writing, and thinking. Students are asked to read critically, then construct written responses that are revised and crafted into more formal essays and position papers. Offered through the Student Academic Services Center. Prereq., program coordinator consent required.

[College of Arts & Sciences](#) | [Arts & Sciences Admin](#) | [Writing](#)

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ASTR-1000 (3) The Solar System

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and the origin of life. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory and Fiske Planetarium. Similar to ASTR 1010, without lab. Also similar to ASTR 1030. Formerly ASTR 1110. Students may receive credit for only one of ASTR 1000, 1110, 1010, or 1030. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Astrophysical & Planetary Sciences](#)

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COMR-1000 (1) Communication and Community

Introduction to how communication builds community by creating and sharing meaning. Examination of communication practices at the interpersonal level (friends and family), the group level (teams, classrooms and organizations) and the societal level (citizenship, social change, mass media). Restricted to students in the Communication Residential Academic Program.

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CSVC-1000 (1) Work Internship

a one credit pass/fail course, opened to students in good academic standing, whose internship employers require that they receive course credit. The student must first seek to obtain academic credit through their major department. Will not count toward degree requirements in any UCB school or college. No appeals for credit toward degrees or for letter grades in the course will be entertained.

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DNCE-1000 (2) Beginning Technique

Introduces basic concepts and skills of various contemporary dance forms, such as Afro-modern, Release Technique, Limon-based modern, etc. Classwork develops muscle strength, flexibility, coordination, rhythm, and dynamic and spatial awareness. Lectures focus on various aspects of dance including history, composition, anatomy and criticism. Limited amount of written work is required. May be repeated up to 4 credit hours.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Nonmajor Technique](#)

THTR-1003 (3) Acting for Nonmajors

Teaches the basic principles of acting for those withno previous acting experience, focusing on relaxation, concentration, improvisation, use of imagination, actions, objectives, initial monologue and scene work, and basic terms and concepts of process work for the actor.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Performance](#)

THTR-1009 (3) Introduction to Theatre

Introduces the varieties of theatrical art, past and present, contributions of the various theatrical artists to the total production, and the place of theatre art in today's society. Designed for nonmajors. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Special Courses in Theatre](#)

THTR-1011 (3) Development of Theatre 1: Forms of Classical Theatre and Drama

Examines the interaction of dramatic literature and performance in classical forms of European and Asian theatre, including Greek, Roman, Indian, Japanese, Medieval, and Renaissance European. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-1012 (2) Dance Production 1

Provides the dancer with an introduction to the types of performance venues available today, and their technical systems and equipment. It will also establish an awareness of how technical theatre design arts may be utilized by a choreographer. Restricted to dance majors. Credit not granted for this course and DNCE 2012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Production

DNCE-1013 (2) Dance Improvisation

An opportunity for students to develop skills of dance improvisation through the exploration of structured movement problems. Students study selected contemporary dance artists whose work stresses improvisation in performance and/or as a training vehicle. Restricted to dance majors. Formerly DNCE 2013. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-1017 (3) Dance and Popular Culture

Explores and contextualizes contemporary popular culture and dance. Introduces methods of critical analysis that reveal the rich heritage hidden within and around the dances students commonly encounter at the club, on the street, on television, on the big screen and elsewhere in everyday life. Through watching, reading, and discussion, students discover new meaning in their lived cultural experience. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

THTR-1019 (3) Theatre Foundations: Text Analysis and Practice for the Theatre Arts

Introduces fundamental methods of text analysis for the stage, presents common vocabulary and concepts of the theatre event as an art form and how it works, and what playmaking means to those who do it. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-1020 (1) Beginning Modern Dance with Experience

Studio course that continues the work from the beginning level on basic concepts and skills in modern dance technique to increase strength, flexibility, and coordination. May be repeated up to 2 total credit hours. Prereq., DNCE 1000.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

DNCE-1027 (3) Introduction to Dance and Culture

Explores dance's relationship to broad cultural realities such as food getting, sexuality, rites of passage, work, and religion. Topics are explored by looking at several different cultural groups and how their dance functions in relation to the specific topic. (For example, dance as a function of religion could be studied through explorations into Afro-Cuban orisha dances, Bharata Natyam, and Hopi Ghost dancing.) Formerly DNCE 1029. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Theater & Dance | Dance and Cultural Studies

DNCE-1091 (1) Modern 1

Introduces basic skills of modern dance. In-class technique work increases muscle strength, flexibility, and coordination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Major Technique

DNCE-1100 (1) Beginning Ballet

Ballet for beginners; no previous experience required. Stretching, basic barre, simple terre a terre, and jumping steps are learned, as well as alignment and basic extended positions such as arabesque and attitude. Mastery of simple enchainements and rhythmic patterns. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

THTR-1105 (3) Stage Technologies

Introduces technical production elements and procedures, including materials, organizations, methods and equipment to realize theatrical scenery, properties, lighting and sound. Credit not granted for this course and THTR 1065 or 1075.

College of Arts & Sciences | Theater & Dance | Theatre Design and Technology

THTR-1115 (3) Costume Technologies

Introduces technical production elements and procedures including materials, organizations, methods and equipment to realize theatrical costuming and make-up. Credit not granted for this course and THTR 1065 or 1075. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Arts & Sciences | Theater & Dance | Theatre Design and Technology

DNCE-1120 (1) Beginning Ballet with Experience

Extension of beginning ballet, when basic concepts of ballet have been mastered. Enchainements are of greater complication and variety. Dance vocabulary is more extensive. Pirouettes and more complex musical phrases are expected. May be repeated up to 2 total credit hours. Prereq., DNCE 1100.

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| College of Arts & Sciences | Theater & Dance | Nonmajor Technique |
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DNCE-1190 (1) Ballet 1

Beginning ballet covering the basic vocabulary of classical ballet technique. Offered summers only at Pery-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Nonmajor Technique |
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DNCE-1200 (1) Beginning Jazz Dance

Introduces various styles of movement unique to jazz dance. Students learn fundamental technical dance skills as well as specific jazz vocabulary. Designed for students with little or no dance experience. May be repeated up to 2 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Nonmajor Technique |
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DNCE-1220 (1) Beginning Jazz with Experience

Further develops work begun in Beginning Jazz. Exercises and jazz dance phrases are more complex. May be repeated up to 2 total credit hours. Prereq., DNCE 1200.

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| College of Arts & Sciences | Theater & Dance | Nonmajor Technique |
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DNCE-1290 (1) Jazz 1

Introduces jazz dance, consisting of a technique warm-up, locomotion across the floor, and a series of dance phrases developed into a short dance combination. Offered summers only at Pery-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Nonmajor Technique |
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DNCE-1849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged with and advised by a faculty member. Freshman level course. May be repeated up to 7 total credit hours. Same as DNCE 2849, 3849, 4849, 5849.

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| College of Arts & Sciences | Theater & Dance | Independent Study |
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DNCE-1901 (1-3) Technique Practicum

Offers special courses in the technique series. Includes world dance and/or social dance forms. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-1908 (1) Performance Practicum

Students learn and perform a dance choreographed by a faculty member or graduate student for an informal and/or formal presentation. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-2003 (3) Acting 1

Emphasizes principles of acting, focusing on exercises in relaxation, talking and listening, actions and objectives, and basic concepts of process work. Prerequisites: Restricted to Theatre (THTR, TBFA) Dance (DNCE, DBFA), Film or Arts and Sciences Open Option majors only.

College of Arts & Sciences Theater & Dance Performance

DNCE-2005 (3) Movement Awareness and Injury Prevention for the Dancer

Helps dancers understand the prevention and care of common injuries associated with their art. Through various somatic methods, techniques, anatomy, and kinesiology, students learn to reduce tension, improve body usage, and enhance their performance. Prereqs., DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Movement Analysis

THTR-2013 (3) Performance of Literature

Students learn to perceive literary form and content and to translate that perception into classroom performances of selected modern plays and stories. Performances, both solo and ensemble, embody literary texts diverse in terms of gender and ethnicity. Prereqs., 15 credit hours and THTR 1003, 2003 or 2043.

College of Arts & Sciences Theater & Dance Performance

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DNCE-1000 (2) Beginning Technique

Introduces basic concepts and skills of various contemporary dance forms, such as Afro-modern, Release Technique, Limon-based modern, etc. Classwork develops muscle strength, flexibility, coordination, rhythm, and dynamic and spatial awareness. Lectures focus on various aspects of dance including history, composition, anatomy and criticism. Limited amount of written work is required. May be repeated up to 4 credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Nonmajor Technique](#)

DNCE-1020 (1) Beginning Modern Dance with Experience

Studio course that continues the work from the beginning level on basic concepts and skills in modern dance technique to increase strength, flexibility, and coordination. May be repeated up to 2 total credit hours. Prereq., DNCE 1000.

[College of Arts & Sciences](#) [Theater & Dance](#) [Nonmajor Technique](#)

DNCE-1100 (1) Beginning Ballet

Ballet for beginners; no previous experience required. Stretching, basic barre, simple terre a terre, and jumping steps are learned, as well as alignment and basic extended positions such as arabesque and attitude. Mastery of simple enchainements and rhythmic patterns. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Nonmajor Technique](#)

DNCE-1120 (1) Beginning Ballet with Experience

Extension of beginning ballet, when basic concepts of ballet have been mastered. Enchainements are of greater complication and variety. Dance vocabulary is more extensive. Pirouettes and more complex musical phrases are expected. May be repeated up to 2 total credit hours. Prereq., DNCE 1100.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1190 (1) Ballet 1

Beginning ballet covering the basic vocabulary of classical ballet technique. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1200 (1) Beginning Jazz Dance

Introduces various styles of movement unique to jazz dance. Students learn fundamental technical dance skills as well as specific jazz vocabulary. Designed for students with little or no dance experience. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1220 (1) Beginning Jazz with Experience

Further develops work begun in Beginning Jazz. Exercises and jazz dance phrases are more complex. May be repeated up to 2 total credit hours. Prereq., DNCE 1200.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1290 (1) Jazz 1

Introduces jazz dance, consisting of a technique warm-up, locomotion across the floor, and a series of dance phrases developed into a short dance combination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-2290 (1) Jazz 2

Continuation of Jazz 1. Studies coordination, rhythm, style, and advanced body part isolation in depth. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

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ENVS-1000 (4) Introduction to Environmental Studies

Surveys environmental studies, examining ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on Earth. Required for ENVS majors. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Environmental Studies](#)

ENVS-2000 (4) Applied Ecology for Environmental Studies

Covers how ecological ideas and principles underlie both the problems and solutions of multiple environmental issues. The ecology of environmental concerns ranging from endangered species to global carbon cycling will be reviewed, including perspectives from physiological, behavioral, population, community, and ecosystem ecology. Prereqs., ENVS 1000 and EBIO 1030, 1040 and 1050, or EBIO 1210, 1220, 1230 and 1240. Recommended prereq., a course in introductory statistics. Similar to EBIO 2040. Credit not granted for this course and EBIO 2040.

[College of Arts & Sciences](#)
[Environmental Studies](#)

ENVS-2100 (3-4) Topics in Applied Environmental Studies

Covers a variety of topics not currently offered in the curriculum: offered depending on instructor availability and student demand. May be repeated up to 6 total credit hours, provided the topics vary. Prereq., ENVS 1000.

[College of Arts & Sciences](#)
[Environmental Studies](#)

ENVS-2840 (1-6) Independent Study

Students work with an approved faculty sponsor to explore a topic in greater depth and to pursue an interest that is not offered in the formal curriculum. May be repeated up to 8 total credit hours. Prereq., ENVS 1000.

College of Arts & Sciences | Environmental Studies

ENVS-3001 (3) Sustainable Solutions Consulting

Introduces students to green design, industrial ecology, and life cycle analysis. Students use basic techniques of environmental auditing to analyze the CU-Boulder campus. Prereq., any two-semester science sequence. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Environmental Studies

ENVS-3020 (3) Advanced Writing in Environmental Studies

Offers training in critical thinking and analytical writing skills appropriate to upper-division classes. Writing assignments integrate the subject matter of different topical areas. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Environmental Studies

ENVS-3030 (3-4) Topics in Environmental Social Sciences

Covers a variety of topics that fulfill the social science requirement in the Environmental Studies major. Topics may include human ecology, environment and society, and quantitative environmental social science. Offered depending upon instructor availability and student demand. Prereq., ENVS 1000. Not repeatable for credit.

College of Arts & Sciences | Environmental Studies

ENVS-3032 (3) Environment, Media & Society

Examines how mass media influence our society, specifically with regard to environmental issues and outcomes. Focuses on media influence over environmental politics and policy, environmental public opinion, popular culture, and environmental/scientific knowledge.

College of Arts & Sciences | Environmental Studies

ENVS-3040 (4) Conservation Biology

Applies principles of population ecology, population genetics, biogeography, animal behavior, and paleobiology to the maintenance of biodiversity and natural systems. The resulting theory is then applied to conservation policy and management techniques. Prereq., EBIO 2040 or 2640. Same as EBIO 3040.

College of Arts & Sciences | Environmental Studies

ENVS-3070 (3) Energy and the Environment

Examines contemporary issues in energy consumption and its environmental impact, including fossil fuel use and depletion; nuclear energy and waste disposal; solar, wind, hydroelectric, and other renewable sources; home heating; energy storage; fuel cells; and alternative transportation vehicles. Includes some basic physical concepts and principles that often constrain choices. No background in physics is required. Same as PHYS 3070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Environmental Studies

ENVS-3100 (3) Topics in Applied Environmental Studies

Covers a variety of topics not currently offered in the curriculum; offered depending upon instructor availability and student demand. May be repeated up to 6 total credit hours, provided topics vary. Prereq., ENVS 1000.

College of Arts & Sciences | Environmental Studies

ENVS-3103 (3) Applied Environmental Studies: Mining in Four Corners

Explores mining related issues that have pronounced impact on the environment, economy and politics of the Four Corners region. Students apply their basic knowledge of environmental science, policy and values toward the understanding of and productive discourse about the conflicts and opportunities brought about by the mining industry in the Four Corners region. Course includes a seven day field trip, visiting mining and reclamation sites in New Mexico, Utah and Colorado. Fulfills application requirement for Environmental Studies majors. Prereq., ENVS 1000 and one year natural science.

College of Arts & Sciences | Environmental Studies

ENVS-3140 (3) Environmental Ethics

Examines major traditions in moral philosophy to see what light they shed on value issues in environmental policy and the value presuppositions of the economic, ecological, and juridical approaches to the environment. Prereq., sophomore standing or PHIL 1100, 1200, 2200, 3100, or 3200. Same as PHIL 3140. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Environmental Studies

ENVS-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Prereq., CHEM 1111 or CHEN 1211 and 1221. Same as CVEN 3434.

College of Arts & Sciences | Environmental Studies

ENVS-3520 (3) Energy and Climate Change: An Interdisciplinary Approach

Examines sources of energy and other resources in light of their availability, use, environmental impact, as well as their impact on policy, economics and values. As fossil fuels are the dominant energy source today, particular emphasis is placed on climate impacts and the carbon cycle. All material is assessed through the lenses of the physical sciences, policy, ethics and economics. Prereq., a two-course sequence in any natural science. May be repeated up to 6 total credit hours. Same as GEOL 3520. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Environmental Studies

ENVS-3521 (3) Climate Politics and Policy

Engages students in exploring the realm of contemporary and historical climate policy at three major levels of government: international, national and local/regional. Through course lectures, discussions, readings and activities, students will become conversant with the actors, mechanisms and concerns involved in climate policy and politics, and develop their own sense of how to judge the success of climate policies.. Prereq., ENVS 1000.

College of Arts & Sciences | Environmental Studies

ENVS-3600 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Prereqs., ATOC 1050 and 1060, or ATOC 3300/GEOG 3301, or GEOG 1001 and 1-semester calculus. Same as GEOG 3601 and ATOC 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Environmental Studies or Geography majors only.

College of Arts & Sciences | Environmental Studies

ENVS-3621 (3) Energy Policy and Society

Examines how society makes decisions about energy, and how these decisions affect the environment and the economy. Uses tools from policy analysis, economics, and other disciplines to build an in-depth understanding of energy's role in U.S. contemporary society. Recommended prereqs., ENVS/PHYS 3070.

College of Arts & Sciences | Environmental Studies

ENVS-3800 (3) The Art of Research: The Essential Elements of Research in Environmental Studies

Introduces students to the practice of doing research in environmental studies. Examines how to define a research problem, select methods, design research, construct arguments and evaluate others' research. Aims to familiarize students with the process of doing research and enable them to proceed with confidence in pursuing their own research topics. Recommended for juniors planning to write ENVS honors theses. Prereq., ENVS 1000. Recommended prereq., ENVS 3020. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Environmental Studies

ENVS-3930 (1-3) Internship

Relates classroom theory to practice. Provides academically supervised opportunities for environmental studies majors to work in public and private organizations on projects related to students' career goals. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Environmental Studies

ENVS-4027 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between (a) inequality and democratic decision making and (b) undemocratic decision making; U.S. and corporate food and energy policy; and global environmental degradation. The course also focuses on the role that global inequality plays in fostering environmental degradation. Restricted to juniors/seniors. Same as SOCY 4027.

College of Arts & Sciences | Environmental Studies

ENVS-4050 (2-4) Field Studies in Environmental Sciences

Includes field-oriented courses offered at irregular intervals during academic year or during summer sessions.

College of Arts & Sciences | Environmental Studies

ENVS-4100 (1-3) Topics in Environmental Policy

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated upto 9 total credit hours, provided the topics vary. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Environmental Studies

ENVS-4120 (1-3) Topics in Environmental Sciences

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated upto 6 total credit hours, provided the topics vary. Restricted to junior and senior ENVS majors.

College of Arts & Sciences | Environmental Studies

ENVS-4160 (3) Introduction to Biogeochemistry

Covers fundamentals of biogeochemical cycling, emphasizing water, carbon, and nutrient dynamics in terrestrial ecosystems; chemical interactions of atmosphere, biosphere, lithosphere, and hydrosphere, and natural and human-managed environments. Prereqs., GEOL 3320 or EBIO 3270, and CHEM 1011 or higher. Same as GEOL and EBIO 4160

College of Arts & Sciences | Environmental Studies

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FARR-1000 (1) Farrand Service-Learning Practicum: Special Topics

Offers a varying service-learning practicum experience as corequisite to a service-learning lecture course. May be repeated up to 6 total credit hours, provided the practica are different. Graded pass/fail.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-1003 (1) Banned Books and the First Amendment

Focuses on a heated topic of discussion since the Constitution was drafted: the censorship of books. This class will look at some classics in literature: Catcher in the Rye, The Color Purple, and Huck Finn, and will explore the questions of why they were controversial and whether censorship of books is ever justified. Graded pass/fail.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-1004 (1) Teen Trials and Tribulations in Literature

Discusses major themes and literary strategies in coming-of-age literature. Pass/fail only.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-1005 (1) Comics and the Interpretive Arts

Explores comic books as literature and visual art. This course will introduce methods of literary analysis and apply them to a specific medium of art: the comic book. Discussions will focus on

content and form and will be guided by questions about the way in which art is defined and categorized. Graded pass/fail.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-1561 (1) Nonviolence for Everyday: Meditation and Other Helpful Habits

Focuses on the challenge of achieving nonviolence on a day-to-day basis by maintaining a peaceful, focused frame of mind. Explores ways to train the mind, including methods that may aid healing.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-1562 (3) Gandhi's Satyagraha: Love in Action for Humans and Other Creatures

Class texts and films explore social justice and structural violence in regard to humans, animals, and the environment in the light of a Gandhian approach to these issues. Outreach work in the community is included.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-2000 (3) Farrand Seminar in the Humanities and the Arts

Studies an aspect of the theme of the Center for Humanities Seminar Program each year, and will be taught by faculty participants in the Center's fellowship program. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-2002 (3) Literature of Lifewriting

Examines how diverse writers have created unique personal narratives that shape memory within historical and social contexts. Works will exemplify a wide range of literary structures, themes, and strategies that enhance an understanding of the genre and provide models for students' own lifewriting assignments. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-2510 (3) Exploring Good and Evil through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in film. Same as FILM 2613. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-2660 (3) Ethics of Ambition

Through selected readings in classical literature on ethics and through more contemporary readings and films, examines critical ethical issues relating to the competition of ambitions and the alternative styles of choosing between courses of action in a dangerous world. Uses biographies of those whose lives illustrate both the complexities of the struggles and the profundity of possibilities. Considers the unconscious metaphors of national visions and ambitions, the competing ethics of ends and means, the conflicting ambitions in a pluralistic society, and the transcendent ambitions of visionaries. Same as HONR 2250. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Farrand Residential Academic Program

FARR-2820 (3) Future of the Spaceship Earth

Examines major ecological, political, economic, cultural, legal, and ethical issues that will shape the future. Students consider how their decisions influence the future, and reflect on fundamental values and ideals underlying the search for solutions to these complex problems. Approved for the arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Farrand Residential Academic Program

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GSAP-1000 (3) World Politics and Society

Explores the history leading up to-and away from-the attacks of 9/11 within an American framework. Topics to be covered include: America's relationship with key countries since 1945; the rise of Muslim extremism; modern terrorism and its meaning; the importance of oil; and the events of 9/11 and the Bush Administration's response to it, at home and abroad. Restricted to G-RAP students.

[College of Arts & Sciences](#)
[Global Studies Residential Academic Program](#)

GSAP-1500 (1) Community Engagement

Facilitates community-level service and volunteer opportunities in the University, Boulder-Denver area, and Colorado communities for first-year students. Participants will learn how to conduct basic community research and will design their own volunteer, service, or internship plan in conjunction with the instructor and the class, targeting a university center, community nonprofit, local business, government agency, or international institution.

[College of Arts & Sciences](#)
[Global Studies Residential Academic Program](#)

GSAP-2010 (3) Introduction to National Security

Introduces national and international security studies to students. The course examines the influence of history, domestic politics, and international events and actors on the development of security policy. Restricted to G-RAP students.

[College of Arts & Sciences](#)
[Global Studies Residential Academic Program](#)

GSAP-2020 (3) Topics in National Security

Intensive look at specific security issues. This course focuses on the specifics of policy development related to functional issues (political, military, and non-traditional) as well as threats within specific regions. In addition to class, each student will focus on an issue of their choosing. Recommended prereq., GSAP 2010. Restricted to G-RAP students.

College of Arts & Sciences | Global Studies Residential Academic Program

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CSVC-1000 (1) Work Internship

a one credit pass/fail course, opened to students in good academic standing, whose internship employers require that they receive course credit. The student must first seek to obtain academic credit through their major department. Will not count toward degree requirements in any UCB school or college. No appeals for credit toward degrees or for letter grades in the course will be entertained.

[College of Arts & Sciences](#) | [Career Services](#)

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DNCE-1000 (2) Beginning Technique

Introduces basic concepts and skills of various contemporary dance forms, such as Afro-modern, Release Technique, Limon-based modern, etc. Classwork develops muscle strength, flexibility, coordination, rhythm, and dynamic and spatial awareness. Lectures focus on various aspects of dance including history, composition, anatomy and criticism. Limited amount of written work is required. May be repeated up to 4 credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Nonmajor Technique](#)

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ENVS-1000 (4) Introduction to Environmental Studies

Surveys environmental studies, examining ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on Earth. Required for ENVS majors. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Environmental Studies](#)

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FARR-1000 (1) Farrand Service-Learning Practicum: Special Topics

Offers a varying service-learning practicum experience as corequisite to a service-learning lecture course. May be repeated up to 6 total credit hours, provided the practica are different. Graded pass/fail.

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GSAP-1000 (3) World Politics and Society

Explores the history leading up to-and away from-the attacks of 9/11 within an American framework. Topics to be covered include: America's relationship with key countries since 1945; the rise of Muslim extremism; modern terrorism and its meaning; the importance of oil; and the events of 9/11 and the Bush Administration's response to it, at home and abroad. Restricted to G-RAP students.

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IAFS-1000 (4) Global Issues and International Affairs

Introduces the student to the international affairs program. The course examines political and economic development in several countries in many different world regions. Examines historical trends and development as well as current political and economic issues. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to International Affairs (IAFS), Political Science (PSCI), Anthropology (ANTH), Economics (ECON), History (HIST), Geography (GEOG) or College of Arts and Sciences Open Option (XXAS) majors only.

[College of Arts & Sciences](#) [International Affairs](#)

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IAFS-1000 (4) Global Issues and International Affairs

Introduces the student to the international affairs program. The course examines political and economic development in several countries in many different world regions. Examines historical trends and development as well as current political and economic issues. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to International Affairs (IAFS), Political Science (PSCI), Anthropology (ANTH), Economics (ECON), History (HIST), Geography (GEOG) or College of Arts and Sciences Open Option (XXAS) majors only.

[College of Arts & Sciences](#)
[International Affairs](#)

IAFS-3000 (3) Special Topics in International Affairs

Junior or senior level umbrella seminar spanning a variety of topics relevant to the study of international affairs. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) International Affairs (IAFS) or Political Science (PSCI) majors only.

[College of Arts & Sciences](#)
[International Affairs](#)

IAFS-3300 (6) Economy, Politics and Society in the Middle East

Presents social, political, and economic aspects of the Middle East through a faculty-led study abroad in Kuwait, featuring interactions with officials, bankers, university faculty and local students. Offers a unique opportunity to discuss issues with Kuwaitis at Diwanayas, as well as to participate in seminars and workshops with local faculty and representatives of Kuwaiti businesses and government agencies. Prereq., ECON 1000 or 2020.

[College of Arts & Sciences](#)
[International Affairs](#)

IAFS-3500 (3) French Connections: Contemporary France and America in Historical Context

This faculty-led Global Seminar, based in Bordeaux, France provides an opportunity to compare French history and contemporary culture, economy, and culture to that of the United States.

Lectures in Boulder and Bordeaux are supplemented by interactions with officials, scholars, business leaders, interest groups, and organizations in France. Offered through Study Abroad. IAFS 3500 and HIST 4190 are the same course. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences International Affairs

IAFS-3600 (3) Global Secular Jewish Societies

This course uses a transnational lens to explore contemporary debates about Jewish people, places, and practices of identity and community. Drawing on history, sociology, international studies, and anthropology, we'll think about the places that Jewish people have called 'home,' and what has made, or continues to make those places 'Jewish.' We'll also explore diverse practices that express the extraordinary varieties of Jewishness (such as building synagogues, food markets, and coffeehouses, creating film festivals, going on heritage travel, Israeli-Jewish backpacking, the creation of online websites and blogs, and creating new urban kibbutzim). Restricted to students with minimum 57 units completed. JWST 3600 and IAFS 3600 are the same course.

Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences International Affairs

IAFS-3610 (3) Topics in International Affairs and Jewish Studies

Explores topics in international affairs as it relates to Jewish culture and society. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. IAFS 3610 and JWST 3610 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences International Affairs

IAFS-3650 (3) History of Arab-Israeli Conflict

Explores the origins and development of the Arab-Israeli conflict. Traces Arab-Jewish/Israeli relations from the nineteenth century through the Palestine Mandate, the evolution of Arab and Jewish nationalism, and the creation of Israel to the present day. Recommended prereqs., HIST 1308; HIST/JWST 1828. Same as JWST 3650. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) International Affairs (IAFS) majors only.

College of Arts & Sciences International Affairs

IAFS-4500 (3) The Post-Cold War World

Capstone course for international affairs majors. Examines the ways in which the end of the Cold War, the collapse of failed states, and the rise of global terrorism changed the world. Studies how peoples, governments and nongovernmental organizations face new social, political, economic and security challenges in an era of globalization. Includes discussion, oral reports, critical book reviews, and research papers. Prerequisites: Restricted to students with 87-180 credits (Senior) International Affairs (IAFS) majors only.

College of Arts & Sciences International Affairs

IAFS-4800 (3) Honors Seminar in International Affairs

Directed research course tailored to the particular research interests of the students enrolled. Devoted to research methodology and the development of students' research. Prereq., 3.30 GPA and 3.40 IAFS GPA.

College of Arts & Sciences International Affairs

IAFS-4810 (3) Honors in International Affairs

Continuation of IAFS 4800. Students complete original research begun in the fall and write and defend their honors thesis. They meet regularly with the instructor. Prereq., IAFS 4800.

College of Arts & Sciences International Affairs

IAFS-4900 (1-6) Independent Study in International Affairs

Provides an opportunity to earn academic credit for learning outside the formal class structure. Students interested in doing in-depth research propose a research project to a faculty sponsor and then work closely with that person to produce a piece of original research. Prereq., upper-division standing, GPA of 3.00 or better, grade of C or better in all lower-division courses, and at least 6 upper-division courses. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences International Affairs

IAFS-4930 (3-6) Internship in International Affairs

Working individually under the guidance of a public or private organization, students are assigned to projects selected for their academic suitability. Written assignments occur throughout the semester. Prereq., departmental approval.

College of Arts & Sciences International Affairs

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INVS-1000 (4) Responding to Social and Environmental Problems Through Service Learning

By integrating theory with required community service, students explore how problems are shaped by cultural values and how alternative value paradigms affect the definition of problems in areas such as education and the environment. Students examine different approaches to solving problems and begin to envision new possibilities. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
[INVST Community Studies](#)

INVS-1513 (3) Civic Engagement: Using the Electoral Process as a Tool for Social Change

Designed to educate and inspire civic engagement primarily in the area of electoral politics. Examines various explanations of why people participate in the electoral process and whom they choose to support. Develops the practical skills necessary to participate successfully in the electoral arena. Through a service component, the course provides experience working on a campaign and mobilizing others to participate in the electoral process.

[College of Arts & Sciences](#)
[INVST Community Studies](#)

INVS-1523 (3) Civic Engagement: Democracy as a Tool for Social Change

Educates and inspires students for civic engagement by exploring democratic values and the rights and responsibilities of citizenship. Develops theoretical knowledge and practical skills for participating in a diverse democratic society, especially at the state level, through analyzing legislative issues, making policy recommendations, and advocating for change. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#)
[INVST Community Studies](#)

PACS-2500 (3) Introduction to Peace and Conflict Studies

Introduces the field of peace and conflict studies. Examines causes and dynamics of conflict and violence (interpersonal to global), peace institutions and research, peace movements, nonviolence, and careers in conflict resolution and peacemaking.

College of Arts & Sciences | INVST Community Studies

INVS-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as EDUC 2919. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | INVST Community Studies

INVS-3000 (3-4) Innovative Approaches to Contemporary Issues through Service Learning

Explores creative approaches for solving complex social and environmental issues, with a focus on peace and population. Students analyze the root causes of issues in theoretical and historical contexts, and develop their understanding of effective and innovative approaches to change. This course has a requirement of community service. Recommended prereq., upper-division status. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | INVST Community Studies

INVS-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and SOCY 3001 or 3011, or instructor consent. Same as SOCY 3041.

College of Arts & Sciences | INVST Community Studies

INVS-3100 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of Western and non-Western theories and practices. Community service required. Same as ETHN 3201 and LDSP 3100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | INVST Community Studies

INVS-3302 (3) Facilitating Peaceful Community Change

Students gain knowledge and skills that enable them to become effective facilitators of community goals. Focuses on understanding the processes of community building with a multicultural emphasis. Students are encouraged to apply concepts of life experiences and to examine themselves as potential change agents. Theory and summer experience are integrated. Prereq., admission to INVST. Coreq., INVS 3912. Same as WMST 3302.

College of Arts & Sciences | INVST Community Studies

INVS-3402 (3) Implementing Social and Environmental Change

Examines grassroots innovation as a means for creating comprehensive, solution-based strategies to address social and environmental problems. Students develop an understanding of the root causes of problems, identify how changes are initiated at the grassroots level, and learn the theory and practice of effective and responsible change efforts.

College of Arts & Sciences | INVST Community Studies

PACS-3800 (3) Topics in Peace and Conflict Studies

Content varies depending on instructor. May provide an overview of the field, cover scientific, philosophical, or historical approaches, or analyze a specific substantive topic. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | INVST Community Studies

INVS-3931 (1-6) The Community Leadership Internship, Part 1

Develops students' competencies as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community supervisor, students learn organizational leadership skills by serving as volunteer staff members at community-based organizations. Prereq., admission into INVST CLP. May be repeated up to 6 total credit hours.

College of Arts & Sciences | INVST Community Studies

INVS-3932 (1-6) Community Leadership Internship, Part 2

Develops students' competencies as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community supervisor, students learn organizational leadership skills by serving as volunteer staff members at community-based organizations. May be repeated up to 6 total credit hours.

College of Arts & Sciences | INVST Community Studies

INVS-4302 (3) Critical Thinking in Development

Exposes students to current issues in the political economy of development. Subjects range from globalization, democratization, and economic development. Specifically, the course explores the international and domestic determinants of economic development with special reference to currency markets, foreign direct investment, trade, and democratization. Prereqs., PSCI 2012 or IAFS 1000, ECON 2010 and 2020, and one upper-division PSCI course. Same as PSCI 4732. Approved for arts and sciences core curriculum: contemporary societies.

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INVS-4402 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision-making, civil society, cooperative economics, ecology and decentralized powers. Restricted to senior SOCY/PSCI majors. Same as SOCY 4111.

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PACS-4500 (3) Senior Seminar in Peace and Conflict Studies

Examines specific theoretical perspectives in peace and conflict studies and conducts in-depth research projects using a case-study approach. Emphasizes using critical thinking skills in writing and class discussion. Case study examples include: U.S. violence, peacemaking/keeping in ethnonationalist conflicts, environmental conflict resolution. Prereq., PACS 2500 or instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior).

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| College of Arts & Sciences | INVST Community Studies |
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INVS-4931 (1-6) Community Leadership in Action, Part 1

Develops students' expertise as community leaders. Under the supervision of an instructor and a community advisor, students design a community-based project. Prereqs., admission to INVST CLP, INVS 3931 and 3932. May be repeated up to 6 total credit hours.

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INVS-4932 (1-6) Community Leadership in Action, Part 2

Develops students' expertise as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community advisor, students learn organizational and leadership skills by designing, implementing and evaluating a community-based project. First-hand experience provides students with a deepened understanding of the complex issues facing humanity, and competence with solution-based strategies. May be repeated up to 6 total credit hours. INVS 4932 and LDSP 4932 are the same course.

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INVS-4999 (1-6) Teaching Social Justice

INVS students participate in a service-learning practicum under the supervision of an INVS instructor. They explore teaching strategies for implementing concrete educational goals. Focusing on the issues of social justice and social change, they learn how to encourage higher levels of creativity and analysis among students. May be repeated up to 6 total credit hours. Prereqs., INVS 3302, 3931/3932, 4931/4932 (min grade B-).

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LDSP-1000 (3) The Foundations of 21st Century Leadership

Introduces students to the critical need for and approaches to the practice of creative and effective leadership. Premised on the idea that the potential for leadership is present in all of us. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Chancellor Leadership Residential Academic Program](#)

LDSP-1561 (1) Compassionate Leadership and Mindfulness

Explores various practices and traditions that lead to a balanced, physical, mental, emotional, and spiritual life critical to the practice of effective leadership. May be repeated up to 3 total credit hours.

[College of Arts & Sciences](#) [Chancellor Leadership Residential Academic Program](#)

LDSP-1571 (1) Topics in Leadership

Examines the complex nature of leadership by applying knowledge and practice to contemporary and social issues. May be repeated up to 3 total credit hours.

[College of Arts & Sciences](#) [Chancellor Leadership Residential Academic Program](#)

LDSP-2820 (3) Multilevel Issue in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with

a special emphasis on leadership and ethical implications. Same as PRLC 2820.

College of Arts & Sciences | Chancellor Leadership Residential Academic Program

LDSP-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Leadership RAP or the INVST program. See also LDSP 2920. May be repeated up to 6 total credit hours. Same as EDUC 2910.

College of Arts & Sciences | Chancellor Leadership Residential Academic Program

LDSP-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Leadership RAP or the INVST program. See also LDSP 2910. May be repeated up to 6 total credit hours. Same as EDUC 2920.

College of Arts & Sciences | Chancellor Leadership Residential Academic Program

LDSP-3100 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of western and non-western theories and practices. Same as ETHN 3201 and INVS 3100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Chancellor Leadership Residential Academic Program

LDSP-4010 (4) Critical Issues in Leadership: A Capstone Course

Critical thinking is fundamental to leadership competency. Leaders must have skill at making judgments and collecting information from a variety of sources and on topics in which they have limited expertise. Students read, discuss, and write critical evaluations of contemporary leadership theory from an ethical, military, community building, and business perspective. Prereq., a minimum of 10 credit hours towards the Leadership Certificate completed.

College of Arts & Sciences | Chancellor Leadership Residential Academic Program

LDSP-4932 (1-6) Community Leadership in Action, Part 2

Develops students' expertise as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community advisor, students learn organizational and leadership skills by designing, implementing and evaluating a community-based project. First-hand experience provides students with a deepened understanding of the complex issues facing humanity, and competence with solution-based strategies. May be repeated up to 6 total credit hours. INVS 4932 and LDSP 4932 are the same course.

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LING-1000 (3) Language in U.S. Society

Nontechnical exploration of the ways that language is used in America. Emphasizes language as a social institution and how values and goals of both public institutions and private groups shape and are shaped by language and its use. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or contemporary societies.

[College of Arts & Sciences](#)
[Linguistics](#)

LING-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. Same as CLAS 1010.

[College of Arts & Sciences](#)
[Linguistics](#)

LING-1020 (3) Languages of the World

Explores the issue of human diversity by examining how languages vary around the world. Outlines historical, geographic, and typological classifications of languages across human societies, and the criteria used by linguists for grouping them into language families. Theorizes the relationship between linguistic and cognitive diversity, and considers the impact of language death on humanity. No formal training in linguistics is required. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Linguistics](#)

ESLG-1130 (2) Accent Reduction for Foreign Students

Provides oral activities with authentic English materials to reduce accents and to increase intelligibility for U.S. academic situations. Evaluates individual problem areas and includes one-on-one meetings with the native-speaker instructor. Improves overall articulation and fluency. Does not fulfill humanities or major requirements.

College of Arts & Sciences | Linguistics

ESLG-1140 (2) Presentation Skills for International Students

Provides instruction and practice to improve classroom oral communication skills necessary for effective participation in the U.S. academic setting, either as an international TA or RA, graduate or undergraduate student. Evaluates individual problem areas and includes digital audio and video recording with extensive feedback from the native-speaker instructor. Improves oral competence and listening comprehension in English for international students. Recommended prereq., ESLG 1130.

College of Arts & Sciences | Linguistics

ESLG-1210 (2) Academic Writing for Foreign Students

Addresses the development of paragraphs and full-length essays. Focus areas include organization and style, grammar and vocabulary, and conventions of academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Improves fluency and precision in academic writing. Does not fulfill humanities or major requirements.

College of Arts & Sciences | Linguistics

ESLG-1222 (2) Advanced Written Composition for Foreign Students

Continued practice in academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Preparation, writing, and revising of a full-length academic term/research paper or work on chapters for a master's thesis or doctoral dissertation. Does not fulfill humanities or major requirements. Prereq., ESLG 1210 or instructor consent.

College of Arts & Sciences | Linguistics

ESLG-1410 (3) Academic English Skills for International Students

Provides instruction and practice to improve academic speaking and writing skills for effective participation in U.S. universities. Speaking includes accent reduction and effective communication through oral activities and recordings. Writing addresses development of paragraphs and full-length papers, including organization, grammar, vocabulary, incorporating ideas of others, and citing sources appropriately. Instructor feedback helps students improve fluency in both speaking and writing. Restricted to non-native speakers of English. Credit not granted for this course and ESLG 1130 or ESLG 1210.

College of Arts & Sciences | Linguistics

LING-1500 (3) Understanding Grammar

Presents fundamentals of grammar in the Western tradition. Emphasizes making concepts and uses of grammar (as exemplified in English and closely related foreign languages) understandable to the nonspecialist.

College of Arts & Sciences | Linguistics

LING-1900 (1) Service Learning Practicum: Adult Literacy

Practicum for selected students in LING 1000. Provides practical experience of the impact of illiteracy on individuals, families, and the community at large. Coregistration in service learning recitation is required. Coreq., LING 1000.

College of Arts & Sciences | Linguistics

LING-2000 (3) Introduction to Linguistics

Introduces the study of languages as structural systems. Principles of sound patterns, word formation, meaning, and sentence structure. Gives attention to language acquisition, psycholinguistics, language families, dialects, historical change in languages, and different language types. Meets MAPS requirement for social science: general.

College of Arts & Sciences | Linguistics

LING-2400 (3) Language and Gender

Familiarizes students with the effects of gender on language use; discusses popular beliefs and scholarly theories about language and communication. Provides students with tools for exploring the role of language and gender. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Linguistics

LING-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as PSYC 3005, PHIL 3310, and CSCI 3702.

College of Arts & Sciences | Linguistics

LING-3100 (3) Language Sound Structures

Introduces the sounds of languages and their organization into phonological structures. Prereq., LING 2000 or equivalent.

College of Arts & Sciences | Linguistics

LING-3220 (3) American Indian Languages in their Social and Cultural Context

A sampling of the many languages and cultures found in America before Columbus. Emphasizes those living in what eventually became the United States, but also gives attention to the languages and higher civilizations of Latin America. Prereq., junior standing. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Linguistics

LING-3430 (3) Semantics

Theoretical and practical study of meaning in natural language. Considers both semantic theories and semantic phenomena from diverse languages. Does not treat techniques for improving the use of language. Prereq., LING 2000 or equivalent. Prerequisites: Restricted to junior or senior Linguistics (LING) majors only.

College of Arts & Sciences | Linguistics

LING-3545 (3) World Language Policies

Examines the economic and sociopolitical impact of choosing English vs. other languages in the U.S. Introduces the study of language policies, rights, and planning in other countries, including the worldwide use of English in social, business, and legal contexts.

College of Arts & Sciences | Linguistics

LING-3800 (1-4) Special Topics in Linguistics

Intensive study of a selected area or problem in linguistics. May be repeated up to 9 total credit hours.

College of Arts & Sciences | Linguistics

LING-4100 (3) Perspectives on Language

Provides extended critical examination of a few selected issues, chosen each term for their general interest and relevance, e.g., the relation between language and thought, or human language vs. animal languages, and computer languages. Prereqs., LING 2000 or equivalent, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Linguistics

LING-4220 (3) Language and Mind

Studies processes of perceiving speech, interpreting it as meaningful, and expressing intentions to communicate as utterances. Emphasizes roles of the brain and of perceptual and motor systems. Writing, gestural, and animal communicative systems also are treated. Prereqs., PSYC 1001 and LING 2000. Same as PSYC 4220.

College of Arts & Sciences | Linguistics

LING-4420 (3) Morphology and Syntax

Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world's languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages. Prereq., Ling 2000 or equivalent. Same as Ling 5420.

College of Arts & Sciences | Linguistics

LING-4450 (3) Introduction to Formal Syntax

Introduces formal generative grammar, including determining constituent structure, drawing trees, writing rules, understanding the properties of the lexicon and their interaction with syntax, X-bar theory and its modifications, and movement analysis. Prereq., LING 4420 on instructor consent.

College of Arts & Sciences | Linguistics

LING-4560 (3) Language Development

Emphasizes acquisition of language by young children; development in later years and into adulthood is also treated. Particular attention given to roles of environment and of neurophysiological endowment in learning to communicate with words, sentences, and narratives. Restricted to Linguistics majors only. Prereqs., LING 2000 and PSYC 1001. Same as SLHS 4560 and PSYC 4560. Prerequisites: Restricted to Linguistics Majors only.

College of Arts & Sciences | Linguistics

LING-4610 (3) English Structure for Teachers of English to Speakers of Other Languages

Description of morphological and syntactic categories and structures of English. Prereq., LING 2000. Same as LING 5610.

College of Arts & Sciences | Linguistics

LING-4800 (3) Language and Culture

Principles of language structure and how language and culture interrelate; how language and language use are affected by culture; and how culture may be affected by use of, or contact with, particular languages. Prereq., junior standing. Same as ANTH 4800.

College of Arts & Sciences | Linguistics

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PHIL-1000 (3) Introduction to Philosophy

Introduces fundamental topics of philosophy, e.g., knowledge, truth, universals, self, the mind-body problem, time, God, and value. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-1010 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. PHIL 1010 and 1020 may be taken in either order. Same as CLAS 1030. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-1020 (3) Introduction to Western Philosophy: Modern

Introduces several philosophical texts and doctrines of 17th and 18th century Europe. Gives special attention to the connection between philosophical ideas and the wider historical milieu--social, political, and literary. PHIL 1010 and 1020 may be taken in either order. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-1100 (3) Ethics

Introductory study of major philosophies on the nature of the good for humanity, principles of evaluation, and moral choice as they apply to contemporary moral problems. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

PHIL-1200 (3) Philosophy and Society

Introduces philosophical thought through critical analysis of our own society, its institutions, and principles. Approved for GT-AH3. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or ideals and values.

College of Arts & Sciences | Philosophy

PHIL-1400 (3) Philosophy and the Sciences

Considers philosophical topics and concepts related to the natural sciences, such as science and pseudo-science; scientific method; the nature of explanation, theory, confirmation, and falsification; the effect of science on basic concepts like mind, freedom, time, and causality; ethics of experimentation; and the relation of science to society. Approved for GT-AH3. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Philosophy

PHIL-1440 (3) Introductory Logic

Introductory study of definition, informal fallacies, and the principles and standards of correct reasoning. Provides practice in analyzing, evaluating, and constructing frequently encountered types of arguments. Does not fulfill major requirement in logic.

College of Arts & Sciences | Philosophy

PHIL-1500 (3) Reading, Writing and Reasoning

Teaches students how to write argumentative papers. Each seminar will focus narrowly on some controversial topic. For example, one seminar might focus on the existence of God, whereas another might question whether we have free will. In all cases, a significant portion of the course will be devoted to learning how to write cogent argumentative papers about controversial topics. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Philosophy

PHIL-1600 (3) Philosophy and Religion

Philosophical introduction to some of the central concepts and beliefs of religious traditions, focusing particularly on the question of the existence of God and on the relation between religious

beliefs and moral beliefs. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

PHIL-1700 (3) Philosophy and the Arts

Considers philosophic questions involved in the analysis and assessment of artistic experiences and of the objects with which the arts, including the literary arts, are concerned.

College of Arts & Sciences | Philosophy

PHIL-1750 (3) Philosophy through Literature

Introduces philosophy through literature. Selected novels, plays, and short stories that exemplify traditional problems in philosophy are read and discussed.

College of Arts & Sciences | Philosophy

PHIL-1800 (3) Open Topics/Philosophy

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-2140 (3) Environmental Justice

Traditional and contemporary theories of justice are employed in order to critically analyze social and political issues that have important environmental dimensions. Assesses the relationship of justice and equity to the presuppositions of national and global environmental issues and policies.

College of Arts & Sciences | Philosophy

PHIL-2200 (3) Major Social Theories

Introductory study of major philosophies of the past in relation to political, economic, and social issues. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

PHIL-2220 (3) Philosophy and Law

Considers philosophical issues related to law in general and the U.S. system in particular. Topics to be covered may address such questions as the following: What is the nature of law? What kinds of acts should the law prohibit (e.g., abortion, drug use, pornography, cloning)? Is there a moral obligation to obey the law? Can civil disobedience be justified? Is there a justification for punishing people for breaking the law? Is capital punishment, in particular, morally justified? Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Philosophy

PHIL-2270 (3) Philosophy and Race

Explores the historical relationship between western philosophy and race and investigates the ways in which philosophy can be used to address contemporary racial issues. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Philosophy

PHIL-2290 (3) Philosophy and Women

Explores different approaches to the study of women. Same as WMST 2290. Approved for arts and sciences core curriculum: cultural and gender diversity.

College of Arts & Sciences | Philosophy

PHIL-2390 (3) Philosophy and Psychology

Interdisciplinary course on issues where philosophy and psychology meet; for example, topics such as selfhood, motivation, psychotherapy, freedom, and human behavior are examined. Selected readings in philosophy and psychology are required.

College of Arts & Sciences | Philosophy

PHIL-2440 (3) Symbolic Logic

First course in mathematical logic. Topics include sentential logic, the logic of quantification, and some of the basic concepts and results of metalogic (interpretations, validity, and soundness).

College of Arts & Sciences | Philosophy

PHIL-2610 (3) From Paganism to Christianity

Offers a cultural history of Greek and Roman religion. Students read ancient text in translation and use evidence from archaeology to reconstruct the shift from paganism to Christianity in antiquity. Same as CLAS 2610. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

PHIL-2750 (3) Philosophy and Science Fiction

Explores philosophical issues in science fiction literature and film. Topics may include time travel, artificial intelligence, free will, personal identity, and how scientific advances will change human life and society. Students may read science fiction stories and philosophical articles, and watch several movies.

College of Arts & Sciences | Philosophy

PHIL-2800 (3) Open Topics/Philosophy

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-2840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3000 (3) History of Ancient Philosophy

A survey of selected figures in ancient Greek and Roman philosophy and in medieval philosophy. Philosophers studied may include the pre-Socratics, Plato, Aristotle, the Hellenistic philosophers, and such figures as Aquinas and Occam. Explores the larger cultural context that influenced these philosophers and were, in turn, influenced by them. Prereqs., 6 hours of philosophy coursework. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3010 (3) History of Modern Philosophy

Introduces modern philosophy, focusing on the period from Descartes through Kant. In addition to careful analysis of philosophical arguments, attention is paid to the ways in which philosophers responded to and participated in major developments in the 17th and 18th century, such as the scientific revolution. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

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INVS-1000 (4) Responding to Social and Environmental Problems Through Service Learning

By integrating theory with required community service, students explore how problems are shaped by cultural values and how alternative value paradigms affect the definition of problems in areas such as education and the environment. Students examine different approaches to solving problems and begin to envision new possibilities. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) | [INVST Community Studies](#)

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LDSP-1000 (3) The Foundations of 21st Century Leadership

Introduces students to the critical need for and approaches to the practice of creative and effective leadership. Premised on the idea that the potential for leadership is present in all of us. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) | [Chancellor Leaderships Residential Academic Program](#)

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LING-1000 (3) Language in U.S. Society

Nontechnical exploration of the ways that language is used in America. Emphasizes language as a social institution and how values and goals of both public institutions and private groups shape and are shaped by language and its use. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or contemporary societies.

[College of Arts & Sciences](#) | [Linguistics](#)

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PHIL-1000 (3) Introduction to Philosophy

Introduces fundamental topics of philosophy, e.g., knowledge, truth, universals, self, the mind-body problem, time, God, and value. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) | [Philosophy](#)

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PHYS-1000 (3) Preparatory Physics

Introduces basic physics, emphasizing an analytical approach to prepare for PHYS 1110/1120, the engineering majors sequence. This course does not satisfy any MAPS deficiency in either the sciences or math. Prereq., 1 year high school algebra or equivalent.

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PHYS-1000 (3) Preparatory Physics

Introduces basic physics, emphasizing an analytical approach to prepare for PHYS 1110/1120, the engineering majors sequence. This course does not satisfy any MAPS deficiency in either the sciences or math. Prereq., 1 year high school algebra or equivalent.

College of Arts & Sciences | Physics

PHYS-1010 (3) Physics of Everyday Life 1

Intended primarily for nonscientists, this course covers physics encountered in everyday life. Topics include balls, scales, balloons, stoves, insulation, light bulbs, clocks, nuclear weapons, basics of flashlights, and microwave ovens. Prereq., high school algebra or equivalent. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. However, this course should not be taken if the student has a MAPS deficiency in math. Approved for arts and sciences core curriculum: natural science or quantitative reasoning and mathematical skills.

College of Arts & Sciences | Physics

PHYS-1020 (4) Physics of Everyday Life 2

Intended primarily for nonscientists, this course is a continuation of PHYS 1010. Includes electrical power generation and distribution, electrical motors, radio, television, computers, copiers, lasers, fluorescent lights, cameras, and medical imaging. Prereqs., PHYS 1010 and high school algebra. Approved for GT-SC1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills or natural science.

College of Arts & Sciences | Physics

PHYS-1110 (4) General Physics 1

Three lect., one rec. per week, plus three evening exams in the semester. First semester of three-semester sequence for science and engineering students. Covers kinematics, dynamics, momentum of particles and rigid bodies, work and energy, gravitation, simple harmonic motion, and introduction to thermodynamics. Coreq., APPM 1350 or MATH 1300. Credit not granted for this course and PHYS 1170. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-1120 (4) General Physics 2

Three lect., one rec. per week, plus three evening exams in the semester. Second semester of three-semester introductory sequence for science and engineering students. Covers electricity and magnetism, wave motion, and optics. Normally is taken concurrently with PHYS 1140. Prereq., PHYS 1110 (min grade C-). Coreq., MATH 2300 or APPM 1360. Credit not granted for this course and PHYS 1180. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-1140 (1) Experimental Physics 1

Introduction to experimental physics through laboratory observations of a wide range of phenomena. Course covers experiments on physical measurements, linear and rotational mechanics, harmonic motion, wave motion, sound and heat, electricity and magnetism, optics, and electromagnetic waves with the mathematical analysis of physical errors associated with the experimental process. One lect., one 2-hour lab per week. Prereq., PHYS 1110; prereq. coreq., PHYS 1120. Approved for GT-SC1. Approved for arts and science core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-1150 (1) Experimental Physics 2

For students in Physics Plan 3 teaching track only. Students complete another full set of PHYS 1140 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1110 and 1120. Same as PHYS 1140.

College of Arts & Sciences | Physics

PHYS-1220 (3) Physics for Future Presidents

Intended primarily for nonscientists, this course covers topics relevant to leaders, policy makers, and citizens confronted with science and technology issues. Topics include energy consumption and its impact on the environment; atoms and heat; radioactivity and nuclear reactions; nuclear bombs; light and radio waves for technological applications; climate change; quantum physics. Recommended prereq., high school algebra. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Physics

PHYS-1230 (3) Light and Color for Nonscientists

Discusses light, color, vision, and perception. Covers reflection, refraction, lenses, and applications to photography and other methods of light sensing. Other topics include lasers and holography. Course is geared toward nonscience majors. Meets MAPS requirements for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and science core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-1240 (3) Sound and Music

Explores the physical processes that underlie the diversity of sound and musical phenomena. Topics covered include the physical nature of sound, the perception of sound, the perception of pitch and harmony, musical instruments, synthesizers and samplers, and room acoustics. Nonmathematical; geared toward nonscience majors. Approved for GT-SC2. Meets MAPS requirement for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-1300 (3) Experiment in Physics

Examines the roles of experiment in physics, using historical examples. Experiments provide a basis for scientific knowledge, test theories, call for new theories, give hints toward the mathematical form of theories, and provide evidence for the existence of entities involved in theories. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-2010 (5) General Physics 1

Three demonstration lect., one two-hour lab/rec. week, plus three evening exams in the semester. Covers mechanics, heat, and sound. Elementary but thorough presentation of fundamental facts and principles of physics. Natural science majors with a knowledge of calculus and others taking calculus are urged to consider taking the calculus-based courses PHYS 1110, 1120, 1140, and 2130, rather than PHYS 2010 and PHYS 2020. This course is designed for premed students in the biological sciences. Prereq., ability to use high school algebra and trigonometry. Approved for GT-SC1. Meets MAPS requirements for natural science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-2020 (5) General Physics 2

Three demonstration lect., one two-hour lab/rec. per week, plus three evening exams in the semester. Covers electricity and magnetism, light, and modern physics. Natural science majors with a knowledge of calculus and others taking calculus are urged to take the calculus-based courses PHYS 1110, 1120, 1140, and 2130, rather than PHYS 2010 and PHYS 2020. This course is designed for premed students and students in the biological sciences. Prereq., PHYS 2010. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

PHYS-2130 (3) General Physics 3

Third semester of introductory sequence for science and engineering students except physics majors and those studying computer applications in physics (for these, see PHYS 2170). Covers special relativity, quantum theory, atomic physics, solid state, and nuclear physics. Physics majors should take PHYS 2170 instead of PHYS 2130. Prereqs., PHYS 1120, 1140, or ECEN 2250, 3400. Coreq., MATH 2400. Normally taken with PHYS 2150.

College of Arts & Sciences | Physics

PHYS-2150 (1) Experimental Physics

One lect., one 2-hour lab per week. Includes many experiments of modern physics, including atomic physics, solid state physics, electron diffraction, radioactivity, and quantum effects. Normally taken concurrently with PHYS 2130 or PHYS 2170 but students may take PHYS 2150 after taking PHYS 2130 or 2170. Prereqs., PHYS 1120 and 1140.

College of Arts & Sciences | Physics

PHYS-2160 (1) Experimental Physics

For students in Physics Plan 3 teaching track only. Students do another full set of PHYS 2150 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1120 and 1140. Same as PHYS 2150.

College of Arts & Sciences | Physics

PHYS-2170 (3) Foundations of Modern Physics

For physics majors in plans 1 and 2 and those studying computer applications in physics. Completes the three-semester sequence of general physics. Emphasizes developing skills for physics majors. Includes relativity, quantum mechanics, atomic structure. Normally taken with the laboratory PHYS 2150. Prereq., PHYS 1120. Coreq., MATH 2400 or APPM 2350.

College of Arts & Sciences | Physics

PHYS-2210 (3) Classical Mechanics and Mathematical Methods 1

Theoretical Newtonian mechanics, including position and velocity dependent forces, oscillation, stability, non-inertial frames and gravitation from extended bodies. Ordinary differential equations, vector algebra, curvilinear coordinates, complex numbers, and Fourier series will be introduced in the context of the mechanics. Prereqs., PHYS 2130 or 2170, MATH 2400 or APPM 2350. Coreq., APPM 2360. Credit not granted for this course and PHYS 2140. Prerequisites: Restricted to Physics, Engineering Physics or Astronomy majors only.

College of Arts & Sciences | Physics

PHYS-2810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-2840 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-3000 (3) Science and Public Policy

For nonscience majors. Reading, discussions, debates, and lectures are used to study how science affects society economically, intellectually, and in terms of health and national security. Another focus is how government fosters and funds scientific activities. Recommended prereq., completion of core science requirement.

College of Arts & Sciences | Physics

PHYS-3050 (3) Writing in Physics: Problem-Solving and Rhetoric

Teaches strategies used in scientific writing with an emphasis on argument, reviews and reinforces essential writing skills, provides experience in writing both academic and professional communications in a style appropriate to the literature of physics. Prereqs., PHYS 2130 or 2170 and lower-division core writing requirement. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Physics

PHYS-3070 (3) Energy and the Environment

Contemporary issues in energy consumption and its environmental impact, including fossil fuel use and depletion; nuclear energy and waste disposal; solar, wind, hydroelectric, and other renewable sources; home heating; energy storage; fuel cells; and alternative transportation vehicles. Included are some basic physical concepts and principles that often constrain choices. No background in physics is required. Approved for arts and sciences core curriculum: natural science. Same as ENVS 3070.

College of Arts & Sciences | Physics

PHYS-3210 (3) Classical Mechanics and Mathematical Methods 2

Lagrangian and Hamiltonian treatment of theoretical mechanics, including coupled oscillations, waves in continuous media, central force motion, rigid body motion and fluid dynamics. The calculus of variations, linear algebra, tensor algebra, vector calculus, and partial differential equations will be introduced in the context of the mechanics. Prereqs., PHYS 2210, APPM 2360, or equivalent.

College of Arts & Sciences | Physics

PHYS-3220 (3) Quantum Mechanics and Atomic Physics 1

Introduces quantum mechanics with wave, operator, and matrix computational techniques. Investigates solutions for harmonic oscillator, potential well, and systems with angular momentum. Develops a quantitative description of one-electron atoms in lowest order. Prereqs., PHYS 2130 or 2170, 2210, and 3210. Prerequisites: Requires pre-requisite courses of PHYS 2210 and 3210, and PHYS 2130 or 2170.

College of Arts & Sciences | Physics

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SPAN-1000 (3) Cultural Difference through Hispanic Literature

For freshmen only. Organized around the general topic of cultural differences. Focuses on a related issue such as gender or history articulated in the literature of Spain, Latin America, and the Hispanic United States. Taught in English; students read selected literary texts in English from the various traditions. Does not count towards the Spanish major. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

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PORT-1010 (5) Beginning Portuguese 1

Offers students a firm command of Portuguese grammar. Uses grammar as point of departure for development of oral skills. Reading and writing stressed to lesser degree. Attendance at language laboratory may be mandatory.

[College of Arts & Sciences](#)
[Spanish](#)
[Portuguese](#)

SPAN-1010 (5) Beginning Spanish 1

Offers students a firm command of Spanish grammar. Grammar is used as a point of departure for development of oral skills. Reading and writing are stressed to a lesser degree. Attendance at the language laboratory may be mandatory. Credit not granted for this course and Span 1150.

[College of Arts & Sciences](#)
[Spanish](#)
[Spanish](#)

PORT-1020 (5) Beginning Portuguese 2

Continuation of PORT 1010. Prereq., PORT 1010 (min. grade C-) or placement.

College of Arts & Sciences Spanish Portuguese

SPAN-1020 (5) Beginning Spanish 2

Continuation of Span 1010. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1010 (min. grade of C-), or placement. Credit not granted for this course and SPAN 1150.

College of Arts & Sciences Spanish Spanish

SPAN-1150 (5) Intensive First Year Spanish

An intensive beginning course covering the same material as Span 1010 and 1020. Attendance at the language laboratory may be mandatory. Similar to Span 1010 and 1020.

College of Arts & Sciences Spanish Spanish

PORT-2110 (3) Second-Year Portuguese 1

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 1020 (min. grade C-) or placement. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Portuguese

SPAN-2110 (3) Second-Year Spanish 1

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade C-), or placement. Credit not granted for this course and SPAN 2150. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Spanish

PORT-2120 (3) Second-Year Portuguese 2

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 2110 (min. grade C-) or placement.

College of Arts & Sciences Spanish Portuguese

SPAN-2120 (3) Second-Year Spanish 2

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 2110 (min grade C-) or better, or placement. Credit not granted for this course and SPAN 2150.

College of Arts & Sciences Spanish Spanish

PORT-2150 (5) Intensive Second-Year Portuguese.

Intensive review of grammar and other subjects normally covered in Port 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., Port 1020 (min. grade of C-), or placement and departmental approval. Credit not granted for this course and Port 2110 and 2120. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Portuguese

SPAN-2150 (5) Intensive Second-Year Spanish

Intensive review of grammar and other subjects covered in SPAN 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade of C-), or placement and departmental approval. Credit not granted for this course and SPAN 2110 or 2120. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Spanish

PORT-2350 (3) Portuguese for Spanish Speakers

Intensive introduction to the Portuguese language for those able to speak Spanish. Prereq., five semesters of college Spanish or equivalent, SPAN 3000, placement, or departmental approval.

College of Arts & Sciences Spanish Portuguese

SPAN-2450 (3) Catalan for Spanish Speakers

Offers an intensive introduction to the Catalan language for those able to speak Spanish. By the end of the course students should be able to communicate well in all language-skills areas: listening comprehension, speaking, reading and writing. Students will also have gained a better understanding and appreciation of the Catalan singularity. Prereq., five semesters of college Spanish or equivalent, or SPAN 3000, or placement, or department approval.

College of Arts & Sciences Spanish Spanish

SPAN-3000 (5) Advanced Spanish Language Skills

Transitional course that introduces students to the Spanish major and improves their writing skills. Involves composition, reading, and to a lesser extent, conversation. Prereq., Span 2120 or

2150 (min grade C-), the equivalent, or placement.

College of Arts & Sciences Spanish Spanish

SPAN-3001 (3) Spanish Conversation

Emphasizes vocabulary acquisition and speaking fluency. Through structured and carefully monitored individual, group, and class work, students achieve enduring language growth and meaningful acculturation that otherwise could only be achieved through an extended stay in an Hispanic country. This course is intended for those who are learning Spanish as a second-language. Native speakers of Spanish who have pursued formal education in a Spanish speaking country will not be admitted to the course. Heritage speakers of Spanish (native speakers who have pursued formal education in a non-Spanish speaking setting) as well as students from bi-lingual K-12 programs must meet with the coordinator to determine appropriate class level. Prereqs., SPAN 2120 or 2150 (min grade C-), the equivalent, or placement. Credit not granted for this course and SPAN 3002. Does not count toward the Spanish major.

College of Arts & Sciences Spanish Spanish

SPAN-3002 (3) Advanced Spanish Conversation

Designed for Spanish majors, this course focuses on refining fluency in both informal and formal discourse through group discussions, class work, and individual and group presentations with a focus on preparing students for communication in professional settings. To that end, the materials used in the course will emphasize themes and problems relevant to the contemporary Hispanic world. Prereq., SPAN 3000 (min grade C-) or equivalent. Credit not granted for this course and SPAN 3001.

College of Arts & Sciences Spanish Spanish

PORT-3003 (3) Advanced Portuguese Language Skills

Builds vocabulary and competence in more sophisticated written Portuguese. Involves composition, reading, grammar and class discussion. Themes are drawn primarily from current issues in Brazil. Mandatory for the Portuguese-track majors. Prereqs., PORT 2120 or 2150 or 2350.

College of Arts & Sciences Spanish Portuguese

SPAN-3010 (3) Advanced Rhetoric and Composition

Designed to refine expository and argumentative writing in Spanish, this course will center around four main areas of study: culture, linguistics, sociopolitical and economic reality, and literature and criticism. A multi-draft process-based approach will guide the writing and revision of essays. Additionally, there will be a focus on grammar and lexical issues most challenging for students at the third-year level. Prereq., SPAN 3000 (min. grade C-). Similar to SPAN 4010. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Spanish Spanish

SPAN-3030 (3) Professional Spanish for Business 1

Includes the study of business vocabulary, business concepts, geographic context, and cultural context. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3040 (3) Professional Spanish for Business 2

Continuation of SPAN 3030 with more emphasis on interpreting and elementary translation. Some attention is given to the writing of resumes and application letters, as well as to the entire job-search process. Prereqs., SPAN 3000, 3030. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3050 (3) Spanish Phonology and Phonetics

Designed to teach some of the methods, techniques, and tools of descriptive linguistics as they apply to articulatory phonetics. Students analyze important contrasts between sounds of Spanish and English by means of phonetic transcription. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3100 (3) Literary Analysis

Students read short stories and other brief narrative texts, critical and creative essays, short plays, and poems to facilitate the acquisition of critical skills in identification of basic ideological and formalistic issues within texts being studied. Prereq., SPAN 3000 or equivalent.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3120 (3) Advanced Spanish Grammar

Analysis of texts from morphological and syntactic perspectives. Structural and semantic characteristics of major features of Spanish are studied at the sentence level. Use of these grammatical features is then studied in selected literary texts. Prereq., SPAN 3000 or equivalent.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3150 (3) Linguistic Analysis of Spanish

Introduces students to fundamental areas of linguistic analysis with special attention paid to Spanish (and Portuguese). The structural systems of language will be introduced (principles of sound patterns, word formation, meaning, and sentence structure). Different types of language variation will be discussed (historical, social, regional). Prereq., SPAN 3000 or equivalent.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-1000 (3) Cultural Difference through Hispanic Literature

For freshmen only. Organized around the general topic of cultural differences. Focuses on a related issue such as gender or history articulated in the literature of Spain, Latin America, and the Hispanic United States. Taught in English; students read selected literary texts in English from the various traditions. Does not count towards the Spanish major. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

[College of Arts & Sciences](#)
[Spanish](#)
[Spanish](#)

SPAN-1010 (5) Beginning Spanish 1

Offers students a firm command of Spanish grammar. Grammar is used as a point of departure for development of oral skills. Reading and writing are stressed to a lesser degree. Attendance at the language laboratory may be mandatory. Credit not granted for this course and Span 1150.

[College of Arts & Sciences](#)
[Spanish](#)
[Spanish](#)

SPAN-1020 (5) Beginning Spanish 2

Continuation of Span 1010. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1010 (mingrade of C-), or placement. Credit not granted for this course and SPAN 1150.

[College of Arts & Sciences](#)
[Spanish](#)
[Spanish](#)

SPAN-1150 (5) Intensive First Year Spanish

An intensive beginning course covering the same material as Span 1010 and 1020. Attendance at the language laboratory may be mandatory. Similar to Span 1010 and 1020.

College of Arts & Sciences Spanish Spanish

SPAN-2110 (3) Second-Year Spanish 1

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade C-), or placement. Credit not granted for this course and SPAN 2150. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Spanish

SPAN-2120 (3) Second-Year Spanish 2

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 2110 (min grade C-) or better, or placement. Credit not granted for this course and SPAN 2150.

College of Arts & Sciences Spanish Spanish

SPAN-2150 (5) Intensive Second-Year Spanish

Intensive review of grammar and other subjects covered in SPAN 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade of C-), or placement and departmental approval. Credit not granted for this course and SPAN 2110 or 2120. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Spanish

SPAN-2450 (3) Catalan for Spanish Speakers

Offers an intensive introduction to the Catalan language for those able to speak Spanish. By the end of the course students should be able to communicate well in all language-skills areas: listening comprehension, speaking, reading and writing. Students will also have gained a better understanding and appreciation of the Catalan singularity. Prereq., five semesters of college Spanish or equivalent, or SPAN 3000, or placement, or department approval.

College of Arts & Sciences Spanish Spanish

SPAN-3000 (5) Advanced Spanish Language Skills

Transitional course that introduces students to the Spanish major and improves their writing skills. Involves composition, reading, and to a lesser extent, conversation. Prereq., Span 2120 or 2150 (min grade C-), the equivalent, or placement.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3001 (3) Spanish Conversation

Emphasizes vocabulary acquisition and speaking fluency. Through structured and carefully monitored individual, group, and class work, students achieve enduring language growth and meaningful acculturation that otherwise could only be achieved through an extended stay in an Hispanic country. This course is intended for those who are learning Spanish as a second-language. Native speakers of Spanish who have pursued formal education in a Spanish speaking country will not be admitted to the course. Heritage speakers of Spanish (native speakers who have pursued formal education in a non-Spanish speaking setting) as well as students from bi-lingual K-12 programs must meet with the coordinator to determine appropriate class level. Prereqs., SPAN 2120 or 2150 (min grade C-), the equivalent, or placement. Credit not granted for this course and SPAN 3002. Does not count toward the Spanish major.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3002 (3) Advanced Spanish Conversation

Designed for Spanish majors, this course focuses on refining fluency in both informal and formal discourse through group discussions, class work, and individual and group presentations with a focus on preparing students for communication in professional settings. To that end, the materials used in the course will emphasize themes and problems relevant to the contemporary Hispanic world. Prereq., SPAN 3000 (min grade C-) or equivalent. Credit not granted for this course and SPAN 3001.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3010 (3) Advanced Rhetoric and Composition

Designed to refine expository and argumentative writing in Spanish, this course will center around four main areas of study: culture, linguistics, sociopolitical and economic reality, and literature and criticism. A multi-draft process-based approach will guide the writing and revision of essays. Additionally, there will be a focus on grammar and lexical issues most challenging for students at the third-year level. Prereq., SPAN 3000 (min. grade C-). Similar to SPAN 4010. Approved for arts and sciences core curriculum: written communication.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3030 (3) Professional Spanish for Business 1

Includes the study of business vocabulary, business concepts, geographic context, and cultural context. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3040 (3) Professional Spanish for Business 2

Continuation of SPAN 3030 with more emphasis on interpreting and elementary translation. Some attention is given to the writing of resumes and application letters, as well as to the entire job-search process. Prereqs., SPAN 3000, 3030. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3050 (3) Spanish Phonology and Phonetics

Designed to teach some of the methods, techniques, and tools of descriptive linguistics as they apply to articulatory phonetics. Students analyze important contrasts between sounds of Spanish and English by means of phonetic transcription. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3100 (3) Literary Analysis

Students read short stories and other brief narrative texts, critical and creative essays, short plays, and poems to facilitate the acquisition of critical skills in identification of basic ideological and formalistic issues within texts being studied. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3120 (3) Advanced Spanish Grammar

Analysis of texts from morphological and syntactic perspectives. Structural and semantic characteristics of major features of Spanish are studied at the sentence level. Use of these grammatical features is then studied in selected literary texts. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3150 (3) Linguistic Analysis of Spanish

Introduces students to fundamental areas of linguistic analysis with special attention paid to Spanish (and Portuguese). The structural systems of language will be introduced (principles of sound patterns, word formation, meaning, and sentence structure). Different types of language variation will be discussed (historical, social, regional). Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3200 (3) Spanish Culture

Examines historical bases of modern Spain's cultural and political currents. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3210 (3) The Cultural Heritage of Latin America

Examines literary, artistic, and philosophical currents in Latin America beginning with pre-Columbian indigenous cultures and continuing to the present. Prereq., SPAN 3000. Credit not granted for

this course and SPAN 3220.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as PORT 3220.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3230 (3) Discovering Barcelona: Culture and Heritage

Presents more than 2,000 years of Barcelona's cultural heritage in the city of Barcelona from the Romans to the present. We will read works by locals and foreign authors to understand how the city has been a hub of the European and Mediterranean cultures for centuries. This is a faculty sponsored Global Seminar to Barcelona, Spain, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3240 (3) Catalan Culture 1: Nation and Art

Introduces students to the literary, artistic, and historical currents of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people, its capital Barcelona, and a distinct culture and language. The course examines national identity and major works from renowned Catalan artists, spanning architecture, painting, and literature, like Dalí, Gaudí, or Miró. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3250 (3) Catalan Culture 2: Contemporary Trends and Barcelona

Introduces students to the contemporary social and cultural trends of Catalonia as they take place mainly in its capital Barcelona. The course examines current developments in fields such as theatre, art, fashion, cooking, urban design or architecture. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3260 (3) Late 19th and 20th Century Argentine Narrative

Considers a series of late 19th and 20th century canonical works from several genres (poetry, short story, essay, and the novel). The student will acquire a very specific knowledge of late 19th and 20th century Argentine literature, its relationship to specific social actors and specific historical processes. This is a faculty sponsored Global Seminar to Rosario, Argentina, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

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ENGL-1001 (3) Freshman Writing Seminar

Provides training and practice in writing. Focuses on the writing process, the fundamentals of composition, and the structure of argument. Provides numerous and varied assignments with opportunity for revision. Prereqs., College of Arts and Sciences freshman or sophomore standing. Not open to business or engineering majors. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: lower-division written communication. Prerequisites: Not open to Engineering or Business majors.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-1191 (3) Introduction to Creative Writing

Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and may be discussed in a workshop atmosphere with other students. May not be taken concurrently with ENGL 2021 or 2051. May not be repeated. Not open to graduate students.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-1260 (3) Introduction to Women's Literature

Introduces literature by women in England and America. Covers both poetry and fiction and varying historical periods. Acquaints students with the contribution of women writers to the English literary tradition and investigates the nature of this contribution. Same as WMST 1260. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-1500 (3) Masterpieces of British Literature

Introduces students to a range of major works of British literature, including at least one play by Shakespeare, a pre-20th century English novel, and works by Chaucer and/or Milton. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | English | General Literature & Language

ENGL-1600 (3) Masterpieces of American Literature

Enhances student understanding of the American literary and artistic heritage through an intensive study of a few centrally significant texts, emphasizing works written before the 20th century. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | English | General Literature & Language

ENGL-1800 (3) American Ethnic Literatures

Introduces significant fiction by ethnic Americans. Explores both the literary and the cultural elements that distinguish work by these writers. Emphasizes materials from Native American, African American, and Chicano traditions. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | English | General Literature & Language

ENGL-2021 (3) Introductory Poetry Workshop

Introductory course in poetry writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Not open to graduate students.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-2022 (5) Literary Analysis (with Lab)

Provides basic skills for the English major, enhanced with a language arts lab. Emphasizes critical writing and the acquisition of the techniques and vocabulary of criticism through close attention to literary language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors. Credit not granted for this course and English 2000. Formerly ENGL 2020. Prerequisites: Restricted to English majors only.

College of Arts & Sciences | English | General Literature & Language

ENGL-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ATLS 2036. Formerly ENGL 2030.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-2051 (3) Introductory Fiction Workshop

Introductory course in fiction writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-2058 (3) Twentieth- and Twentyfirst-Century Literature

Surveys the major literary trends in prose and poetry from 1900 to the present in the Anglo-American tradition of modern, postmodern, and contemporary literature. Provides students with a grounding in the major authors and motifs of 20th- and 21st-century in literature connection with political and cultural changes across the periods.

College of Arts & Sciences | English | Critical Studies in English

ENGL-2102 (3) Literary Analysis

Provides a basic skills course designed to equip students to handle the English major. Emphasizes critical writing and the acquisition of basic techniques and vocabulary of literary criticism through close attention to poetic and prose language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors only. Credit not granted for this course and ENGL 1010. Formerly ENGL 2000. Prerequisites: Restricted to English majors only.

College of Arts & Sciences | English | General Literature & Language

ENGL-2112 (3) Introduction to Literary Theory

Introduces students to a wide range of critical theories that English majors need to know. Covers major movements in modern literary/critical theory, from Matthew Arnold through new criticism to contemporary postmodern frameworks. Required for all English majors. Restricted to English majors only. Formerly ENGL 2010. Prerequisites: Restricted to English majors only.

College of Arts & Sciences | English | General Literature & Language

ENGL-2115 (3) American Frontiers

Considers the backdrop of the American West in literature, film, photography, and gaming. We will focus on a range of narratives and images depicting this wide swathe of American geography while simultaneously cultivating close reading skills, digital media analysis and film analysis that will aid you in deeper insights at the textual level. Approved for arts and sciences core curriculum: U.S. context.

College of Arts & Sciences | English | American Literature

ENGL-2222 (3) Foundations of British and American Literature

Studies major texts of medieval and Renaissance writers who fundamentally influenced the course of English writing. Ordinarily deals with Chaucer, Shakespeare, and Milton, though other classical, medieval, and Renaissance authors may be substituted.

College of Arts & Sciences | English | Backgrounds to Literature Engl

ENGL-2503 (3) British Literary History to 1660

Provides a chronological study of great figures and forces in English literature from Beowulf to 1660. Formerly ENGL 2502.

College of Arts & Sciences | English | British Literature to 1660

ENGL-2504 (3) British Literary History after 1660

Provides a chronological study of great figures and forces in English literature from 1660 to the present. Formerly ENGL 2512.

College of Arts & Sciences | English | British Literature after 1660

ENGL-2620 (3) Introduction to Western European Literature 1

Close study of literary classics of Western civilization: the Odyssey or Iliad, Greek drama, and several books of the Bible. Formerly ENGL 2602.

College of Arts & Sciences | English | General Literature & Language

ENGL-2630 (3) Introduction to Western European Literature 2

Close study of literary classics of Western civilization: major Roman and medieval texts. Formerly ENGL 2612.

College of Arts & Sciences | English | General Literature & Language

ENGL-2655 (3) Introduction to American Literature I

Chronological survey of the literature from Bradford to Whitman. Restricted to English, humanities, and film studies majors only. Credit not granted for this course and ENGL 3654. Similar to ENGL 3655. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

College of Arts & Sciences | English | American Literature

ENGL-2665 (3) Introduction to American Literature 2

Chronological survey of the literature from Whitman to Faulkner. Continuation of ENGL 3655. Credit not granted for this course and ENGL 3664. Similar to ENGL 3665. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

College of Arts & Sciences English American Literature

ENGL-2707 (3) Introduction to Lesbian, Bisexual, and Gay Literature

Offers students at sophomore and junior levels an introduction to some of the forms, concerns, and genres of contemporary lesbian, bisexual, and gay writing in English. Prereq., sophomore standing. Same as LGBT 2707.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-2717 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ETHN 2713.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-2727 (3) African American Literature

Surveys African American literature from the 17th century, through the Harlem Renaissance and Depression, to the present. Same as ETHN 2722.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-2737 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ETHN 2732.

College of Arts & Sciences English Multicultural & Gender Studies

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ENGL-1001 (3) Freshman Writing Seminar

Provides training and practice in writing. Focuses on the writing process, the fundamentals of composition, and the structure of argument. Provides numerous and varied assignments with opportunity for revision. Prereqs., College of Arts and Sciences freshman or sophomore standing. Not open to business or engineering majors. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: lower-division written communication. Prerequisites: Not open to Engineering or Business majors.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-1191 (3) Introduction to Creative Writing

Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and may be discussed in a workshop atmosphere with other students. May not be taken concurrently with ENGL 2021 or 2051. May not be repeated. Not open to graduate students.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-2021 (3) Introductory Poetry Workshop

Introductory course in poetry writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Not open to graduate students.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-2051 (3) Introductory Fiction Workshop

Introductory course in fiction writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3011 (3) Literary Forms and Styles in Post-1900 Literature

Studies special topics in literary forms and styles (e.g. magical realism, naturalism, language poetry, etc.) and also the development of genres (e.g. poetry, drama, digital media, novel) in the 20th- and 21st-centuries. Topics vary each semester. Specially design for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3021 (3) Intermediate Poetry Workshop

Intermediate course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2021 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3041 (3) Studies in Fiction and Poetry

Examines literary forms and themes with special emphasis on issues related to the craft of poetry and fiction. This course is taught in conjunction with visiting lectures by practicing writers. Does not count as Creative Writing workshop credit. Prereq., ENGL 1191 (min grade B-). Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3051 (3) Intermediate Fiction Workshop

Intermediate course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2051 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3081 (3) Intermediate Nonfiction Workshop

Discussion and practical criticism of student work and discussion of relevant works of literary nonfiction. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to English, Humanities, Theatre (THTR or TBFA) majors only or Creative Writing minor students only.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4011 (3) Global and Transnational Approaches to Post-1900 Literature

Studies special topics that focus on transnational and global issues in the 20th- and 21st-century literature. For instance, the emergence of globalization, the impact of cross-cultural exchanges, the increase of migration, or the legacies of imperialism. Topics vary each semester. Specially designed for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4021 (3) Advanced Poetry Workshop

Advanced course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1119, ENGL 2021 and ENGL 3021 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4051 (3) Advanced Fiction Workshop

Advanced course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191, ENGL 2051, and ENGL 3051 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4071 (3) Scriptwriting Workshop

Designed to give students practical criticism of their script writing and technical format requirements. Either stage plays or screenplays are studied, as announced. May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Same as FILM 4075. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4081 (3) Playwriting

May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

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GEOG-1001 (4) Environmental Systems 1---Climate and Vegetation

MLect. and lab. Introduces the atmospheric environment of the Earth: elements and controls of climate and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
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GEOG-1011 (4) Environmental Systems 2---Landscapes and Water

MLect. and lab. Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

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GEOG-1982 (3) World Regional Geography

Involves an intellectual journey around the globe, stopping at major regions to study the people, their environments, and how they interact. Topics include the political/economic tensions in changing Europe, conflicts in Brazilian rain forests, transitions facing African peoples, and rapid changes in China. Meets MAPS requirement for social science: geography.

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GEOG-1992 (3) Human Geographies

Examines social, political, economic, and cultural processes creating the geographical worlds in which we live, and how these spatial relationships shape our everyday lives. Studies urban growth, geopolitics, agricultural development and change, economic growth and decline, population dynamics, and migration exploring both how these processes work at global scale as well as shape geographies of particular places. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-2002 (3) Geographies of Global Change

Familiarizes students with spatial and ecological perspectives on economic, political, social, cultural, and environmental changes. Examines roles of transnational corporations, global media, world cities, food security, labor, migration, human rights, ethnicity, nationalism, resources, environmental degradation, and sustainable development in global change. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-2053 (4) Mapping a Changing World

Overviews the vital role cartography plays in modern society and contemporary science. Includes fundamentals of reading and creating maps for research and enjoyment. Lab provides hands-on experience with computer-based methods for creating useful maps.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-2412 (3) Environment and Culture

Examines nature-culture interactions and the effects of development and resource use on environmental quality, as well as practical efforts to manage and protect the environment. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3023 (4) Statistics for Geography

Introduces parametric and distribution-free statistics, emphasizing applications to earth science problems. Not open to students who have taken a college-level statistics course. Same as GEOL 3023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-3053 (4) Cartography: Visualization and Information Design

Introduction to the fundamentals of cartography--the science and art of map design. Emphasis on map projections, symbolization, and the design of maps with computers. Students produce series of thematic maps with modern computer-assisted techniques. Basic familiarity with computers strongly recommended. Introductory course in statistics recommended (may be taken concurrently). Restricted to junior or senior GEOG/ENVS majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) or Geography (GEOG) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-3251 (3) Mountain Geography

Surveys mountain environments and their human use with illustrations from temperate and tropical mountain areas.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3301 (3) Analysis of Climate and Weather Observations

Prereqs., ATOC 1050 and 1060, or GEOG 3601/ATOC 3600/ENVS 3600, or GEOG 1001 and 1-semester calculus. Same as ATOC 3300. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3351 (3) Biogeography

Surveys and analyzes plant and animal distributions on a world scale from ecological and historical perspectives. Emphasizes human impact on species. Prereq., GEOG 1001.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3402 (3) Natural Hazards

Explores the impacts of extreme geophysical events on human society. Emphasizes adaptations to extreme events and ways of reducing vulnerability and damage.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3412 (3) Conservation Practice and Resource Management

Studies inventory, policy, and management of natural resources. Emphasizes practical approaches to the conservation and management of soil, land, water, and air resources. Restricted to geography and environmental studies majors.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3422 (3) Conservation Thought

Lect. and rec. Provides an historical survey of human consumption of earthly materials; environmental and global considerations of population growth, cultural attitude, and technological development; and diverse goals and philosophy of conservation movements in time and place.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3511 (4) Introduction to Hydrology

Examines hydrologic processes in the surface environment, emphasizing the environment of the western United States. Emphasizes natural processes and their management to augment water resources. Prereq., GEOG 1001 and 1011. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Geography (GEOG), Environmental Studies (ENVS) or Ecology and Evolutionary Biology (EBIO) majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3601 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Restricted to Geography or Environmental Studies majors only. Prereqs., ATOC 1050 and 1060, or GEOG 3301/ATOC 3300, or GEOG 1001 and 1-semester calculus. Same as ATOC/ENVS 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Geography or Environmental Studies majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3612 (3) Geography of American Cities

Introduces geography of American cities. Includes demographic and ideological contexts of urban development, emergence of the city system, location theory and rent models, and urban-economic problems.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3662 (3) Economic Geography

Presents several theories of location of economic activity: general theory of land use, agricultural location theory, plant location theory, central place theory, location of systems of cities, and geographical organization of industries. Studies aggregate geographical structure of regions as the geography of three major markets: labor, product, and capital, including the banking system. Explores the economic growth of regions and policies designed to influence regional growth and welfare.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3672 (3) Gender and the Global Economy

Examines the role of gender in global economy. Explores the impacts of colonialism and modern global economy on gender relations, with particular emphasis on third world societies. Also focuses on related issues of population politics, environmental crisis, women's sexual exploitation, and women's social movements worldwide. Prereqs., GEOG 1982, 1992, 2002, 2412, WMST 2000 or 2050. Same as WMST 3672. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3682 (3) Geography of International Development

Compares and contrasts global characteristics and processes of development, emphasizing the developing countries of the world. Integrates theories of development, specific development topics, and case studies to explore the problems of development. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3742 (3) Place, Power, and Contemporary Culture

Presents a radical reexamination of the geography of culture. Examines the relationship between places, power, and the dynamics of culture. Explores how the globalization of economics, politics, and culture shapes local cultural change. Looks at how place-based cultural politics both assist and resist processes of globalization. Recommended prereq., GEOG 1982, 1992, or 2002. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3812 (3) Mexico, Central America, and the Caribbean

Introduces the geography of Latin America, focusing on the lands and peoples of Mexico, Central America, and the Caribbean. Examines regional and national culture, history, environment, and population, as well as ongoing environmental and socioeconomic changes. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3822 (3) Geography of China

Surveys the world's most populous country, examining physical and historical geography, urbanization and regional development, agriculture, population, energy, and the environment. Seeks to situate China's development in a broader Asian and global context. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3840 (1-6) Undergraduate Independent Study

Provides an independent study opportunity, by special arrangement with faculty, for students presenting strong geography preparation. May be repeated up to 8 total credit hours. Restricted to geography majors. Prerequisites: Restricted to Geography majors only.

[College of Arts & Sciences](#) | [Geography](#)

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GEOG-1001 (4) Environmental Systems 1---Climate and Vegetation

MLect. and lab. Introduces the atmospheric environment of the Earth: elements and controls of climate and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

GEOG-1011 (4) Environmental Systems 2---Landscapes and Water

MLect. and lab. Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

GEOG-3251 (3) Mountain Geography

Surveys mountain environments and their human use with illustrations from temperate and tropical mountain areas.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

GEOG-3301 (3) Analysis of Climate and Weather Observations

Prereqs., ATOC 1050 and 1060, or GEOG 3601/ATOC 3600/ENVS 3600, or GEOG 1001 and 1-semester calculus. Same as ATOC 3300. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3351 (3) Biogeography

Surveys and analyzes plant and animal distributions on a world scale from ecological and historical perspectives. Emphasizes human impact on species. Prereq., GEOG 1001.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3511 (4) Introduction to Hydrology

Examines hydrologic processes in the surface environment, emphasizing the environment of the western United States. Emphasizes natural processes and their management to augment water resources. Prereq., GEOG 1001 and 1011. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Geography (GEOG), Environmental Studies (ENVS) or Ecology and Evolutionary Biology (EBIO) majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3601 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Restricted to Geography or Environmental Studies majors only. Prereqs., ATOC 1050 and 1060, or GEOG 3301/ATOC 3300, or GEOG 1001 and 1-semester calculus. Same as ATOC/ENVS 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Geography or Environmental Studies majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4201 (3) Biometeorology

Interdisciplinary science, studying the interactions between atmospheric processes and living organisms (plants, animals, and humans). Discusses how organisms adapt to a changing environment. Uses a practical, problem-solving approach to explore these interactions. Prereq., GEOG 1001. Same as ENVS 4201.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4241 (4) Principles of Geomorphology

Studies weathering, mass-wasting, fluvial, wind, and marine processes and the resulting landforms. Prereq., GEOG 1011 or any 1000-level sequence in geological sciences. Same as GEOL 4241. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC),

Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4251 (4) Fluvial Geomorphology

Emphasizes landscapes formed by running water. Includes basic fluid mechanics, sediment transport, hillslope and channel erosion, and sediment yield. Prereqs., Geog 1011 and 3511. Recommended prereq., Geog 3023. Same as Geog 5251.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4261 (3) Glaciers and Permafrost

Surveys the major terrestrial components of the cryosphere, including permafrost, glaciers, and ice sheets. Emphasizes physical processes involving ice, including thermal behavior, ice deformation, and mass balance, but also considers biogeochemical processes and landforms associated with ice. The climate context, including human interactions and recent climate history, will be considered. The course will be taught in a combination lecture-seminar format. Prereq., GEOG 1011 or GEOL 1010. Recommended prereq., GEOG 4241.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4311 (3) Watershed Biogeochemistry

Emphasizes terrestrial-aquatic linkages in headwater catchments, focusing on hydrologic pathways, isotopic and geochemical tracers, nutrient cycling, water quality, experimental manipulations, and modeling. Prereq., GEOG 1011 and 3511. Recommended prereq., parametric statistics.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4321 (3-4) Snow Hydrology

Offers a multidisciplinary and quantitative analysis of physico-chemical processes that operate in seasonally snow-covered areas, from the micro- to global-scale: snow accumulation, metamorphism, ablation, chemical properties, biological aspects, electromagnetic properties, remote sensing, Gis, and quantitative methods. Prereqs., GEOG 1001 or 1011, and any statistics course. Same as GEOG 5321.

College of Arts & Sciences | Geography | Physical Geography

College of Arts & Sciences | Geography | Physical Geography

GEOG-4331 (3-4) Mountain Climatology

Surveys and analyzes climatic characteristics of mountain environments worldwide. Prereq., GEOG 1001 or ATOC 1050 or 1060. Same as GEOG 5331.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4371 (3) Forest Geography: Principles and Dynamics

Surveys principles of forest geography and ecology. Includes both individual tree responses to environmental factors and species interactions within communities. Emphasizes forest dynamics and their relation to management problems. Prereq., GEOG 1001. Same as GEOG 5371.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4401 (3) Soils Geography

Discusses chemical and physical properties of soils, soil development, distributions, and management relevant to understanding plant-soil relationships in natural and human-altered landscapes. Prereq., GEOG 1011. Recommended prereq., inorganic chemistry. Same as GEOG 5401.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4501 (3) Water Resources and Water Management of Western United States

Interprets and analyzes hydroclimatic data, surface, and groundwater. Critically evaluates water use, emphasizing problems associated with geographic maldistribution, appropriations, irrigation, industry, pollution, and regional development. Same as GEOG 5501.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5161 (3) Research Design in Geography

The human section reads and discusses contemporary research philosophies and methodologies in human geography. Practices the development of research proposals and presentation of research ideas and results. The physical section reads and discusses contemporary research philosophies and methodologies in physical geography (climatology, geomorphology, biogeography, and soils geography). Practices the development of research proposals and presentation of research ideas. Restricted to geography graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5211 (3) Seminar: Physical Climatology

Involves a research seminar concerned with problems of mass and energy exchange in the Earth-atmosphere system. Selects topics from such areas as air quality, bioclimatology, hydrology, climate change, and the climates of urban, agricultural, and natural environments. Restricted to graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5221 (3) Synoptic and Dynamic Climatology

Examines global climates from the standpoint of synoptic and dynamic climatology. Prereqs., GEOG 3201 or equivalent, 3000-level course in climate/atmospheric sciences, and instructor consent. Restricted to graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5241 (1-3) Topics in Physical Geography

Presents recent research topics that vary from year to year. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5251 (4) Fluvial Geomorphology

Restricted to graduate students. Same as GEOG 4251.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5321 (3-4) Snow Hydrology

Restricted to graduate students. Same as GEOG 4321.

College of Arts & Sciences | Geography | Physical Geography

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HONR-1001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of an organized lecture course. Designed typically for 15 students, coseminars are taken for an additional 1 credit hour. Coseminars provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity. May be repeated up to 4 total credit hours. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

[College of Arts & Sciences](#)
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HONR-1810 (3) Honors Diversity Seminar

Students will develop an appreciation for, and experience with, diverse perspectives. In particular this includes: racial/ethnic, gender, sexual orientation, and class perspectives, for constructing knowledge as they proceed through their undergraduate studies. Three themes provide the framework for the course: education for the next century, the 21st century citizen, and the modern individual in a diverse society. Topics explored include privilege, stigmatization, targeted and nontargeted grouping, and oppression. Engaging in independent research and experiential, empathetic experiences is required. Approved for arts and sciences core curriculum: human diversity. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

[College of Arts & Sciences](#)
[Honors](#)

HONR-2250 (3) Ethics of Ambition

Through selected readings in classical literature on ethics and through more contemporary readings and films, examines critical ethical issues relating to the competition of ambitions and the alternative styles of choosing between courses of action in a dangerous world. Uses biographies of those whose lives illustrate both the complexities of the struggles and the profundity of possibilities. Considers the unconscious metaphors of national visions and ambitions, the competing ethics of ends and means, the conflicting ambitions in a pluralistic society, and the transcendent ambitions of visionaries. Same as FARR 2660. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

[College of Arts & Sciences](#)
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HONR-2251 (3) Introduction to the Bible

Studies the major works, figures, and genres of the Bible and attempts to understand what they meant to their own time and why they became so important to Western civilization and contemporary America. Approved for arts and sciences core curriculum: historical content. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

College of Arts & Sciences | Honors

HONR-2500 (3) Open Topics

Variety of new courses at the 2000 level. See honors program announcements for specific contents. May be repeated up to 6 total credit hours. Prereq., GPA 3.30 or higher. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

College of Arts & Sciences | Honors

HONR-2610 (1) Leadership Practicum: Kittredge Honors Program Flock Leaders

Required for students who are selected as flock leaders for the Kittredge honors residence program. Teaches skills and techniques to enable them to lead a small group in the unique environment of a residential honors program. May be repeated up to 6 total credit hours. Prereq., consent of Kittredge honors program associate director.

College of Arts & Sciences | Honors

HONR-2860 (3) The Figure of Socrates

Investigates why Socrates intrigued great writers like Aristophanes, Plato, Xenophon, and Aristotle and why, through his life and execution by the Athenian democracy, he still influences Western ethics, politics, and education and is central to cultural literacy. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Honors

HONR-3001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of a lecture course. Designed typically for 10--15 students, coseminars are taken either for an additional 1 credit hour or in place of a recitation. Coseminars are designed to provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity.

College of Arts & Sciences | Honors

HONR-3004 (3) Women in Education

Honors women in education and their legacy. Introduces women educators, beginning in the late 19th century, whose significant theories of education and work inteaching have had an impact on

all of our lives, in history, and in society. Explores the educational theories and methods of several representative women educators and analyzes them through an investigation of their professional and personal lives. Same as WMST 3004. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Honors

HONR-3056 (3) Experience of Learning

Major historical, psychological, philosophical and personal perspectives on education in general and university education in particular will be developed. Participants will be encouraged to consider how the issues discussed and the ideas developed in the seminar bear on the choices they face in planning their own educations. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Honors

HONR-3220 (3) Advanced Honors Writing Workshop

Intensive practice of expository writing skills, particularly argumentation in longer forms. Course includes extensive practice in researching secondary sources, synthesizing large bodies of information, structuring cogent arguments for diverse sources, etc. Approved for GT-CO3. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Honors

HONR-3270 (3) Journey Motif in Women's Literature

Investigates the application of the theme of the journey to developmental narratives by analyzing modern British and American writings by women. Applies methods from psychology, feminist studies, gay studies, cultural studies to concepts of development, regression, progress, escape. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Honors

HONR-3550 (1-6) Open Topics

Investigates special topics in humanities, social sciences, and natural sciences. Topics vary from semester to semester and from course to course. See Honors program announcements for specific contents. Open to Honors-qualified students beyond the freshman year. May be repeated for up to six credit hours for different topics.

College of Arts & Sciences | Honors

HONR-3560 (3) Science and Mysticism

Has modern science proven or validated the mystical religious experience? Or does a basic conflict remain between these diverse human endeavors? The similarities and differences between science and mysticism will be investigated through readings, discussions and practical, experiential exercises. Discussions and exercises will be designed to encourage both an intellectual and a non-intellectual understanding of the course material. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

College of Arts & Sciences | Honors

HONR-3810 (3) Privilege and Modern Social Construction

This course examines social constructions that lead to productive interactions between and among American social communities. Using case studies and humanistic accounts, students analyze the lived experiences of a unique group or successful citizens who routinely evidence productive practices of multicultural engagement. Through interactions with policy makers and community practitioners, students design and enact activities that allow them to reconstruct their personal patterns of privilege practices of their peer groups in various settings. Prereq., HONR 1810 or demonstrated academic study of race, class, and gender. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

College of Arts & Sciences | Honors

HONR-4000 (3) Open Topics

Variety of new courses at the 4000 level, see Honors Program announcements for specific contents. May be repeated up to 6 total credit hours. Restricted to juniors/seniors or instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Honors

HONR-4025 (3) Heroines and Heroic Tradition

Given recent controversies about the roles of women in power, this course re-evaluates heroic traditions as the stories that ground our sense of public endeavor. What do we mean by heroic? What is a heroine? Are heroines different from heroes? Approved for arts and sciences core curriculum: human diversity. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

College of Arts & Sciences | Honors

HONR-4055 (3) Discourse Analysis and Cultural Criticism

Discourse analysis critically investigates the founding assumptions by which systems of meaning operate. Its practice is aimed at a rigorous, systematic analysis of both specific cultural issues and the dynamics by which structures of meaning may be maintained or transformed. Coreq., HONR 4056. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Honors

HONR-4056 (1-3) Service Practicum: Discourse Analysis and Cultural Criticism

Help communities in need, with credit hours varying according to time commitment. The practicum provides experiential and intellectual understanding of the discourses and dynamics that maintain major cultural hierarchies of values and of resource distribution. Coreq., HONR 4055. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Honors

HONR-4959 (3-6) Honors Thesis

May be repeated up to 6 total credit hours. Requires approval of Honors Program.

College of Arts & Sciences | Honors

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PSYC-1001 (3-4) General Psychology

Surveys major topics in psychology: perceptions, development, personality, learning and memory, and biological bases of behavior. Students may participate as subjects for several hours in ongoing research. Meets MAPS requirement for social science: general.

College of Arts & Sciences | Psychology | General

PSYC-2012 (3) Biological Psychology 1

Surveys biological bases of learning, motivation, emotion, sensory processes and perception, movement, comparative animal behavior, sexual and reproductive activity, instinctual behavior, neurobiology of language and thought, and neurophysiology and neuroanatomy in relation to behavior. Prereq., PSYC 1001. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Psychology | Biological

PSYC-2022 (3) Biological Psychology 2

Continuation of PSYC 2012. Integrates knowledge and facts presented in PSYC 2012 into current topics in biopsychology. Course no longer taught after fall 2003, except through Continuing Education correspondence. Prereq., PSYC 2012.

College of Arts & Sciences | Psychology | Biological

NRSC-2100 (4) Introduction to Neuroscience

Provides an introduction to fundamental concepts in neuroscience. The goal of this first course is to provide a strong foundation in neurobiology--cell biology, physiology of the neuronal membrane, interneuronal communication, neurotransmission, gross anatomy, and how the brain develops. Students will also learn principles of sensory systems functions. The recitation will introduce students to neuronal computational modeling. Prereqs., MCDB 1150 and 1151, or EBIO 1210 and 1230. Fulfills PSYC 2012 requirement for Psychology majors. Prerequisites: Restricted to students with 27-86 credits (Sophomores or Juniors).

College of Arts & Sciences | Psychology

NRSC-2101 (1-4) Topics in Neuroscience

Provides students with the opportunity to focus on a specific area of Neuroscience in depth. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences | Psychology

PSYC-2145 (3) Introductory Cognitive Psychology

Introduces the study of cognitive processes of human beings: sensation, perception, attention, pattern recognition, memory, learning, language, visual thought, reasoning, problem solving, and decision making. Discusses applications to education, human factors, human computer interaction, law, and other areas of psychology. Prereq., PSYC 1001.

College of Arts & Sciences | Psychology | Experimental

PSYC-2606 (3) Social Psychology

Covers general psychological principles underlying social behavior. Analyzes major social psychological theories, methods, and topics, including attitudes, conformity, aggression, attraction, social perception, helping behavior, and group relations. Prereq., PSYC 1001. Credit not granted for this course and PSYC 4406. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Psychology | Social

PSYC-2643 (3) Child and Adolescent Psychology

Surveys major psychological processes of childhood and adolescence. Prereq., PSYC 1001.

College of Arts & Sciences | Psychology | Clinical

PSYC-2700 (3) Psychology of Contemporary American Women

Surveys psychological theory and research concerning contemporary American women. Deals with such issues as masculine bias in American culture, sex difference in cognitive functioning and

personality, psychological conflict for women between career and home, and specific areas pertaining to women's mental health. Prereq., PSYC 1001 or WMST 2000. Same as WMST 2700. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Psychology

PSYC-3001 (4) Honors Research Methods Seminar

Focuses on research design. Each student prepares an original, detailed research proposal, which can become the honors thesis. Open only to students who have been accepted into the psychology departmental honors program. Prereq., instructor consent.

College of Arts & Sciences Psychology General

PSYC-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and CSCI 3702.

College of Arts & Sciences Psychology Experimental

PSYC-3101 (4) Statistics and Research Methods in Psychology

Three hours of lecture and one two-hour lab per week. Introduces descriptive and inferential statistics and their roles in psychological research. Topics include correlation, regression, T-test, analysis of variance, and selected nonparametric statistics. Prereqs., MATH 1011 or MATH 1150, 1300, or 1081. Prerequisites: Requires pre-requisite class of MATH 1011 or MATH 1150 or MATH 1300 or MATH 1081.

College of Arts & Sciences Psychology General

PSYC-3102 (3) Behavioral Genetics

Inheritance of behavioral characteristics. Prereq., PSYC 3101.

College of Arts & Sciences Psychology Biological

PSYC-3105 (3) Experimental Methods in Psychology

Provides an introduction to the use of experimental procedures in psychology. Students learn about the logic and design of experiments, the meaning of psychological data, how to analyze and interpret data, and the role of theory in psychology. Prereqs., Psyc 1001 and 3101. Recommended prereq., Psyc 2145.

College of Arts & Sciences Psychology Experimental

PSYC-3313 (4) Psychopathology

Three hours lec. and two hours rec. per week. Analyzes major theories of personality and behavioral disorders. Restricted to junior and senior PSYC majors. Prereq. PSYC 1001 or instructor consent. Credit not granted for this course and PSYC 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4001 (3) Honors Seminar 2

Surveys contemporary issues, explores current controversies, and examines in detail selected topics in psychology. Open to juniors and seniors in the department's honors program. Prereq., instructor consent.

College of Arts & Sciences | Psychology | General

NRSC-4011 (1-6) Senior Thesis and Research and Ethics

Perform neuroscience related empirical research and analysis. Training emphasizes the development of critical thinking skills specific to dealing with ethical dilemmas and the responsible conduct of research. Issues related to animal and human research are covered. Prereq., instructor consent.

College of Arts & Sciences | Psychology

PSYC-4011 (1-6) Senior Thesis

Critically reviews some aspect of psychological literature, scholarly analysis of a major psychological issue, and/or empirical research project. See the psychology honors director for further information. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Psychology | General

NRSC-4015 (3) Affective Neuroscience

Experiencing and learning from affect--emotional value--is a fundamental part of the human experience. When people started thinking of brains as computers, research on emotion fell by the wayside. Recently however, this has changed, and there is an explosion of work on the brain mechanisms of affective value. We will cover recent advances in understanding the emotional brain. Prereqs. for NRSC 4015 are PSYC 2012 or NRSC 2100 or instructor permission, and junior or senior standing. NRSC 4015 and 5015 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Psychology

PSYC-4021 (3) Psychology and Neuroscience of Exercise

Integrative course exploring the social, cognitive, neuroscience and physiological aspects of exercise as it relates to mental health. Examines how psychological and neuroscience research have been used to study how participation in regular physical activity affects mental health and how psychological variables influence participation in, adherence to, enjoyment of, and performance in sports and exercise. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 2012, 2145 and 2606. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | General

NRSC-4032 (3) Neurobiology of Learning and Memory

Provides a comprehensive treatment of how the brain acquires, stores, and retrieves memories. To do this we will consider (a) the methods used to address these issues, (b) what we know about how brain systems are organized to support memories of different types, and (c) the synaptic mechanisms that are involved. Prereqs., PSYC 2012 or 4052, or IPHY 3730, or NRSC 2100 or 4052, or instructor consent. Restricted to juniors and seniors. Same as NRSC 5032. Formerly PSYC 4032 Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Psychology

NRSC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

College of Arts & Sciences | Psychology

PSYC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

College of Arts & Sciences | Psychology | Biological

PSYC-4062 (3) The Neurobiology of Stress

Provides an introduction to the concept of stress and the physiological systems involved. Factors modulating stress vulnerability versus resilience, and stress interactions with other systems with health relevance will be explored. Emphasis will be placed on current research on brain mechanisms. A strong foundation and interest in biological psychology, neuroscience, and physiology is recommended. Prereqs., PSYC 2012 or NRSC 2100 or instructor consent. Prerequisites: Requires pre-requisite course of PSYC 2012 or NRSC 2100 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior).

College of Arts & Sciences | Psychology | Biological

NRSC-4072 (3) Clinical Neuroscience: A Clinical and Pathological Perspective

Provides basic science background for understanding the mechanism of behavioral disturbances resulting from brain damage. Emphasizes pathological neuroanatomy, neurophysiology, and neuropharmacology, which is essential for understanding problems related to health and disease. Prereqs., PSYC 2012 or NRSC 2100 and one of the following sequences of courses: EBIO 1210 and 1220, MCDB 1150 and 2150, or MCDB 1150 and EBIO 1220. Same as NRSC 5072. Formerly PSYC 4072.

College of Arts & Sciences | Psychology

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Courses

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PSYC-1001 (3-4) General Psychology

Surveys major topics in psychology: perceptions, development, personality, learning and memory, and biological bases of behavior. Students may participate as subjects for several hours in ongoing research. Meets MAPS requirement for social science: general.

College of Arts & Sciences | Psychology | General

PSYC-3001 (4) Honors Research Methods Seminar

Focuses on research design. Each student prepares an original, detailed research proposal, which can become the honors thesis. Open only to students who have been accepted into the psychology departmental honors program. Prereq., instructor consent.

College of Arts & Sciences | Psychology | General

PSYC-3101 (4) Statistics and Research Methods in Psychology

Three hours of lecture and one two-hour lab per week. Introduces descriptive and inferential statistics and their roles in psychological research. Topics include correlation, regression, T-test, analysis of variance, and selected nonparametric statistics. Prereqs., MATH 1011 or MATH 1150, 1300, or 1081. Prerequisites: Requires pre-requisite class of MATH 1011 or MATH 1150 or MATH 1300 or MATH 1081.

College of Arts & Sciences | Psychology | General

PSYC-4001 (3) Honors Seminar 2

Surveys contemporary issues, explores current controversies, and examines in detail selected topics in psychology. Open to juniors and seniors in the department's honors program. Prereq., instructor consent.

College of Arts & Sciences Psychology General

PSYC-4011 (1-6) Senior Thesis

Critically reviews some aspect of psychological literature, scholarly analysis of a major psychological issue, and/or empirical research project. See the psychology honors director for further information. May be repeated up to 6 total credit hours.

College of Arts & Sciences Psychology General

PSYC-4021 (3) Psychology and Neuroscience of Exercise

Integrative course exploring the social, cognitive, neuroscience and physiological aspects of exercise as it relates to mental health. Examines how psychological and neuroscience research have been used to study how participation in regular physical activity affects mental health and how psychological variables influence participation in, adherence to, enjoyment of, and performance in sports and exercise. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 2012, 2145 and 2606. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology General

PSYC-4511 (3) History of Psychology

Includes outline of development of psychological theories since the Greek philosophers, the story of experimental psychology and its problems, and schools of psychological thinking. Students read original sources in English and English translations.

College of Arts & Sciences Psychology General

PSYC-4521 (3) Critical Thinking in Psychology

Allows students to expand their powers as they think about psychological problems, or about how psychological knowledge and techniques can be applied to pressing political, economic, biological, quantitative, and social issues. Encourages intellectual discipline and critical thinking about concepts and ideas; enables students to participate in oral and written discussion. May not be repeated, only 3 credit hours allowed. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Psychology (PSCY)majors only.

College of Arts & Sciences Psychology General

PSYC-4541 (3) Special Topics in Psychology

Studies and analyzes special interest topics from the broad and diversified field of psychology. Particular section content is determined by instructor. May be repeated up to 9 total credit hours, provided the topics vary. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Same as PSYC 5541. Prerequisites: Restricted to students with 57-180

credits (Junior or Senior) Psychology (PSYC) majors only.

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| College of Arts & Sciences | Psychology | General |
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PSYC-4841 (1-6) Independent Study (Upper Division)

Pass/fail only. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

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| College of Arts & Sciences | Psychology | General |
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PSYC-4911 (3) Teaching of Psychology

Students receive concrete experience in teaching general psychology under supervision of a psychology faculty member. Alternative pedagogical strategies are discussed. Students must submit an application to the undergraduate advising center.

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| College of Arts & Sciences | Psychology | General |
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PSYC-4931 (3) Field Placement Internship

Offers valuable volunteer experience through a supervised field placement. Provides hands-on insight into the decisions and issues that confront professionals in psychology and related fields.

Prereqs., completion of 15 or more hours of psychology course work. Restricted to psychology majors. Prerequisites: Restricted to Psychology majors only.

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PSYC-5541 (1-6) Special Topics in Psychology

Same as PSYC 4541. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Psychology | General |
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PSYC-5741 (4) General Statistics

Surveys probability and statistics in psychology. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

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PSYC-5751 (4) General Statistics

Continuation of PSYC 5741. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

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PSYC-5761 (3) Structural Equation Modeling

Provides training in the use of structural equation modeling, a class of analytic techniques that include the estimation of unobserved, or latent, constructs and an estimation of relationships among latent constructs. Prereqs., PSYC 5741 and 5751. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology General

PSYC-6841 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing.

College of Arts & Sciences Psychology General

PSYC-6911 (1-3) Research Practicum

College of Arts & Sciences Psychology General

PSYC-6941 (1) Master's Degree Candidate

May be repeated up to 7 total credit hours.

College of Arts & Sciences Psychology General

PSYC-6951 (1-6) Master's Thesis

May be repeated up to 7 total credit hours.

College of Arts & Sciences Psychology General

PSYC-7291 (3) Multivariate Analysis

Familiarizes students with scientific concepts, matrix theory, and computer techniques of multivariate analyses for psychological research. Topics include cluster and factor analysis, multiple regression, and discriminant functions. Emphasizes research technology rather than mathematical theory. Instructor consent required.

College of Arts & Sciences Psychology General

PSYC-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Psychology | General

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SPAN-1000 (3) Cultural Difference through Hispanic Literature

For freshmen only. Organized around the general topic of cultural differences. Focuses on a related issue such as gender or history articulated in the literature of Spain, Latin America, and the Hispanic United States. Taught in English; students read selected literary texts in English from the various traditions. Does not count towards the Spanish major. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

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ENGL-1001 (3) Freshman Writing Seminar

Provides training and practice in writing. Focuses on the writing process, the fundamentals of composition, and the structure of argument. Provides numerous and varied assignments with opportunity for revision. Prereqs., College of Arts and Sciences freshman or sophomore standing. Not open to business or engineering majors. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: lower-division written communication. Prerequisites: Not open to Engineering or Business majors.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

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GEOG-1001 (4) Environmental Systems 1---Climate and Vegetation

MLect. and lab. Introduces the atmospheric environment of the Earth: elements and controls of climate and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

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HONR-1001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of an organized lecture course. Designed typically for 15 students, coseminars are taken for an additional 1 credit hour. Coseminars provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity. May be repeated up to 4 total credit hours. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

[College of Arts & Sciences](#) | [Honors](#)

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PSYC-1001 (3-4) General Psychology

Surveys major topics in psychology: perceptions, development, personality, learning and memory, and biological bases of behavior. Students may participate as subjects for several hours in ongoing research. Meets MAPS requirement for social science: general.

[College of Arts & Sciences](#) [Psychology](#) [General](#)

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Courses

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SOCY-1001 (3) Introduction to Sociology

Examines basic sociological ideas including social relations, social interaction, social structure, and social change. Examples are drawn from societies around the world. Meets MAPS requirement for social science: general. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Sociology](#)
[General Sociology](#)

SOCY-1004 (3) Deviance in U.S. Society

Examines the social construction of deviance in the U.S., the process of acquiring a deviant identity and managing deviant stigma, and the social organization of deviant act, lifestyles, relationships and careers. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
[Sociology](#)
[Deviance and Criminology](#)

SOCY-1006 (3) The Social Construction of Sexuality

Discusses the social determinants of sexuality. Analyzes the economic, psychological, and cultural influences on human sexuality. Interactional perspective of human sexuality is presented. Same as WMST 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Sociology](#)
[Sex and Gender](#)

SOCY-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as WMST 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-1021 (3) United States Race and Ethnic Relations

An examination of race and minority problems in U.S. society, including the psychological, social, and cultural sources of prejudice and discrimination. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Sociology | General Sociology

SOCY-1022 (3) Ethics and Social Issues in U.S. Health and Medicine

Explores current ethical and policy issues in U.S. health and medical practices. Includes such issues as alcohol and drug abuse, organ transplants and substitutes, genetic engineering, contraception, abortion, occupational safety and health, and euthanasia. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-1841 (1-6) Independent Study in Sociology

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2011 (3) Contemporary Social Issues and Human Values

Explores contemporary societies on a global scale. Focuses on such issues as capitalism, socialism, race and ethnic problems, sex discrimination, poverty and the concentration of wealth, crime and deviance, human rights and human values, peace and war.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2021 (3) Nonviolence and the Ethics of Social Action

Examines nonviolence as a strategy of social action. Focuses on ethics and dynamics of nonviolent action; racial and economic justice movements; civil disobedience; and conscientious objection to war.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2031 (3) Social Problems

Examines U.S. society from a normative perspective emphasizing theories of social change. Considers such problems as distribution of power, unemployment, poverty, racism and sexism, the changing role of the family, and drugs. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Sociology General Sociology

SOCY-2034 (3) Drugs in United States Society

Examines the relationship between drugs and social contexts. Lends insight into why people find consciousness alteration meaningful, what kinds of experiences and problems arise, and what types of social policies emerge to control drug use.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-2044 (3) Crime and Society

Explores issues related to crime, the criminal justice system, and crime-related public policy. It addresses what we know about crime and how we know it, how our society responds to crime, and how the institutions designed to address crime (police, courts, corrections) function.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-2061 (3) Introduction to Social Statistics

Introduces students to quantitative analysis of social phenomena. Emphasizes understanding and proper interpretation of graphs; measures of central tendency, dispersion, and association; and the concept of statistical significance. Assumes students have only limited mathematical background.

College of Arts & Sciences Sociology General Sociology

SOCY-2077 (3) Environment and Society

Examines how both natural and built environments influence human behavior and social organization. Focuses on microenvironments and their influence on individuals; the impact of macroenvironments on societal organization; and environmental movements. Credit not granted for this course and SOCY 3091. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Sociology Environment and Society

SOCY-2091 (3) Topics in Sociology

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. Students may receive credit for this course up to three times for different topics.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3001 (3) Classical Theory

In-depth study of classical sociological theorists, particularly Marx, Durkheim, and Weber. Examines their roles in defining the discipline of sociology. Prereq., SOCY 1001. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3002 (3) Population and Society

Examines population, its structure and processes, and its relationships to selected areas of the social structure. Examines Malthusian, neo-Malthusian, and Marxist perspectives. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-3010 (3) Sociology Capstone Course: Professional Writing

Builds on previous coursework in survey or field methods to result in an original, article-length research paper analyzing sociological data. Students will hone their writing skills through in- and -out-of-class writing exercises, and read and analyze models of quantitative and qualitative sociological articles to develop sociological writing skills. Prereq., SOCY 3301 or SOCY 3401. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3011 (3) Contemporary Theory

Continuation of SOCY 3001. In-depth study of modern and post-modern theories of the 20th century, including structural-functionalist, conflict, symbolic interactionist, feminist, and world system theories. Prereqs., SOCY 1001 and 3001. Restricted to junior/senior SOCY majors.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3012 (3) Women and Development

Investigates the status of women in the context of globalization and social and economic development. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3012. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-3016 (3) Marriage and the Family in U.S. Society

Comparative and historical examination of marriage and the family within the U.S. Emphasizes changing family roles and family structures. Also considers alternatives to the nuclear family and traditional marriage exploring new definitions of family. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3016. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-3034 (3) Perspectives on Violence

What counts as violence? Who decides what is violence and what is not? In what contexts does violence occur? This course critically examines different criminological and social science perspectives on violence. Prereq., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences students only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and 3001 or 3011, or instructor consent. Same as INVS 3041.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3042 (3) Topics in Population and Health

A variety of courses in population and/or health will be taught, usually by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-3044 (3) Race, Class, Gender, and Crime

Overview of race, class, gender, and ethnicity issues in offending, victimization, and processing by the justice system. Examines women and people of color employed in the justice system. Prereq., SOCY 1001 or 1004. Same as WMST 3044. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Sociology | Deviance and Criminology

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SOCY-1001 (3) Introduction to Sociology

Examines basic sociological ideas including social relations, social interaction, social structure, and social change. Examples are drawn from societies around the world. Meets MAPS requirement for social science: general. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Sociology](#)
[General Sociology](#)

SOCY-1021 (3) United States Race and Ethnic Relations

An examination of race and minority problems in U.S. society, including the psychological, social, and cultural sources of prejudice and discrimination. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#)
[Sociology](#)
[General Sociology](#)

SOCY-1841 (1-6) Independent Study in Sociology

May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#)
[Sociology](#)
[General Sociology](#)

SOCY-2011 (3) Contemporary Social Issues and Human Values

Explores contemporary societies on a global scale. Focuses on such issues as capitalism, socialism, race and ethnic problems, sex discrimination, poverty and the concentration of wealth, crime and deviance, human rights and human values, peace and war.

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| College of Arts & Sciences | Sociology | General Sociology |
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SOCY-2021 (3) Nonviolence and the Ethics of Social Action

Examines nonviolence as a strategy of social action. Focuses on ethics and dynamics of nonviolent action; racial and economic justice movements; civil disobedience; and conscientious objection to war.

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| College of Arts & Sciences | Sociology | General Sociology |
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SOCY-2031 (3) Social Problems

Examines U.S. society from a normative perspective emphasizing theories of social change. Considers such problems as distribution of power, unemployment, poverty, racism and sexism, the changing role of the family, and drugs. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

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| College of Arts & Sciences | Sociology | General Sociology |
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SOCY-2061 (3) Introduction to Social Statistics

Introduces students to quantitative analysis of social phenomena. Emphasizes understanding and proper interpretation of graphs; measures of central tendency, dispersion, and association; and the concept of statistical significance. Assumes students have only limited mathematical background.

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| College of Arts & Sciences | Sociology | General Sociology |
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SOCY-2091 (3) Topics in Sociology

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. Students may receive credit for this course up to three times for different topics.

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SOCY-3001 (3) Classical Theory

In-depth study of classical sociological theorists, particularly Marx, Durkheim, and Weber. Examines their roles in defining the discipline of sociology. Prereq., SOCY 1001. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Sociology (SOCY) majors only.

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SOCY-3010 (3) Sociology Capstone Course: Professional Writing

Builds on previous coursework in survey or field methods to result in an original, article-length research paper analyzing sociological data. Students will hone their writing skills through in- and -out-of-class writing exercises, and read and analyze models of quantitative and qualitative sociological articles to develop sociological writing skills. Prereq., SOCY 3301 or SOCY 3401. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3011 (3) Contemporary Theory

Continuation of SOCY 3001. In-depth study of modern and post-modern theories of the 20th century, including structural-functional, conflict, symbolic interactionist, feminist, and world system theories. Prereqs., SOCY 1001 and 3001. Restricted to junior/senior SOCY majors.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and 3001 or 3011, or instructor consent. Same as INVS 3041.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3141 (3) Social Movements in the U.S

Considers theory and research about American social movements. Emphasizes leadership, ideology, recruitment, strategy, organizational dynamics, public response, and reasons for success or failure. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3151 (3) Self in Modern Society

Explores how modern social institutions and culture shape our personal experiences, how personal experiences can affect the nature of those, institutions and culture, and how strategies can be developed for achieving balance between the individual and society. Prereqs., SOCY 1001 and SOCY 3001 3011. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3161 (3) Sociological Perspectives on Race and Ethnicity

Addresses three subtopics of race from a sociological perspective: ethnic and racial identities, immigration, and race and ethnicity in Latin America. Recommended prereq., SOCY 1001.

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SOCY-3171 (3) Whiteness Studies

Uses the conceptual framework of the sociology of race and ethnic relations to explore whiteness as a racial category that is centered and privileged in American society. Investigates the development of whiteness from past white supremacy, current colorblindness, to possible future multiculturalism. Analyzes the consequences of whiteness as a racial identity and a social structure. Prereqs., SOCY 1001 and 1021.

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SOCY-3301 (3) Survey Methods

Teaches quantitative research methods and, particularly, methods of survey research. Topics include sampling, interviewing, schedule construction, data analysis, computer methods, index construction, and statistical analysis. Students participate in a survey project, design, collect data, and prepare a research paper on the basis of collected data. Prereqs., SOCY 1001, 2061, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3401 (3) Field Methods

Skill development prepares students to conduct qualitative sociological research. Emphasizes ethnographic techniques, including intensive interviewing, direct observation, coding, participant observation, and report writing. Students conceive and execute a field research project with data collection, analysis, and a report. Prereqs., SOCY 1001 and SOCY 3001 or 3011.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4021 (3) Conflict Management in Social Systems

Explores conflict resolution theory and method as applied to interpersonal, intergroup, and interorganization conflict. Prereqs., SOCY 1001, and SOCY 3001 or 3011.

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SOCY-4031 (3) Social Psychology

Studies individuals in social context. Reviews philosophical and sociological treatments of the relation between the individual and society. More specific topics include the socialization process, theories of human development and personality formation, language acquisition, conformity, aggression, sex differences in personality and gender identity, and the relation between attitudes and overt behavior. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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SOCY-4071 (3) Social Stratification

Studies theories of class, ethnic, sex, and age stratification. Examines social inequality in the United States and analyzes the resulting conflicts. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as SOCY 5071.

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SOCY-4081 (1-3) Sociology of Education

Analyzes the school as a social organization. Among topics considered are power and control in the school; classroom interaction and its relation to learning and personality development in students; roles of educators; and reciprocal relations of school and community. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors.

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SOCY-4111 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision-making, civil society, cooperative economics, ecology, and decentralized power. Prereqs., SOCY 1001, and 3001 or 3011. Restricted to senior SOCY or PSCI majors. Same as INVS 4402.

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SOCY-4121 (3) Sociology of Religion

Examines complex interactions between religious and other social structures, such as the economy, government, and the family, and how globalization is affecting religious traditions across the globe. Includes discussion of how various religions are used or misused to justify terrorism and other acts of violence. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4131 (1-3) Advanced Topics in Sociology

Variety of advanced specialty courses taught by visiting and regular faculty designed for upper division sociology majors. See current departmental announcement for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001. Restricted to junior and senior SOCY majors.

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ARTS-1002 (3) Beginning Drawing 1

In this studio course the formal visual elements are presented through a study of spatial relationships. The course is built around a series of related problems, each of which is designed to develop fluency in drawing, offer experience in handling media, foster self-confidence, and promote an understanding of the visual elements and their role in the development of pictorial space. Prereqs., ARTS 1010, 1020, and 1030.

[College of Arts & Sciences](#) [Art & Art History](#) [Painting/Drawing](#)

ARTS-1003 (3) Printmaking for Non-Majors

Emphasizes processes involved with both nonmultiple and multiple methods, including but not limited to metal plate etching (intaglio), lithography, collagraph, woodcut, linoleum cut, Xerox transfer, and monotype. Places equal emphases on developing drawing skills and understanding design principles.

[College of Arts & Sciences](#) [Art & Art History](#) [Printmaking](#)

ARTS-1010 (3) Introduction to Studio Art

Presents creative activity conceptually, and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Fine arts majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Foundations](#)

ARTS-1012 (3) Drawing for Non-Majors

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-1020 (3) Introduction to Studio Art 2

Presents creative activity conceptually and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Art and art history majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prereq., ARTS 1010. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Foundations

ARTS-1030 (3) Principles of Color

Introduces the relative effects of color as used by the artist. Emphasizes the practice of color relations including basic characteristics, mixtures, illusions, optical mixture, color intervals, and color quantity. May not be repeated.

College of Arts & Sciences | Art & Art History | Foundations

ARTS-1171 (3) Photography for Non-Majors

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Credit not granted for this course and ARTS 2171.

College of Arts & Sciences | Art & Art History | Photography

ARTS-1202 (3) Beginning Painting 1

The aim of this course is to develop the basic skills, techniques and processes of painting with an understanding of basic colour principles. This integration of paint application and colour principle will develop awareness that painting and colour are used, not only as mediums for representation, but also as mediums for expressive purposes. Demonstrations, lectures, group and individual critiques will be given throughout the course. Prereqs., ARTS 1010, 1020, and 1030.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-1212 (3) Painting for Non-Majors

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTH-1300 (3) History of World Art 1

Surveys major art styles from the Paleolithic period through the Renaissance, including European, Asian, and the Pre-Columbian/Islamic world. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-1400 (3) History of World Art 2

Surveys major art styles from about 1600 to the present, including Europe, Asia, the Islamic world, the Americas, and tribal arts. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Credit not granted for this course and FINE 1409. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece, and Rome, examining various ancient approaches to power, religion, death, and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as CLAS 1509. Approved for arts and science core curriculum: historical context or literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTS-1514 (3) Sculpture for Non-Majors

Offers an orientation involving three-dimensional form and application. Studies expressive problems based on non-objective form relationships in various sculptural materials. May not be repeated.

College of Arts & Sciences | Art & Art History | Sculpture

ARTH-1709 (3) Freshmem Seminar: Critical Introduction to Art History

Provides a broad introduction to understanding and appreciating art and art history within a critical lecture seminar and discussion format. The focus of this course is a selected Particularily directed to nonmajors. Formerly FINE 1709. Approved for arts and science core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTS-1875 (3) Ceramics for Non-Majors

Encompasses broad and fundamental uses of clay. Basic instruction and demonstration of throwing, hand building, and primitive clay forming methods. Investigates utility, function, and ceramics in the broader context of contemporary art. Slide presentations explore historical and contemporary attitudes involving ceramics.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-2002 (3) Figure Drawing

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-2004 (3) Participatory Objects (Sculpture and Post-Studio Practice)

Looks at the tendency in contemporary sculpture to create interactive objects and experiences for the viewer. Students in this course are required to create hands-on projects, participate in group critiques, and develop presentations and research projects. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTH-2019 (3) Pompeii and the Cities of Vesuvius

Introduces the towns and villas buried by the eruption of Mt. Vesuvius in 79 C.E. Explores the layout and decoration of ancient Roman houses, the variety of artifacts uncovered as evidence for daily life and the history of the excavations. Same as CLAS 2019. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Art & Art History | Art History

ARTS-2054 (3) Modules and Multiples (Sculpture and Post-Studio Practices)

Exposes students to the practice or creating large works through smaller multiples and modules. Students will learn to cast using plaster and other types of materials, molds and jigs will also be introduced as a way to streamline production of multiple objects. Prereq., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-2085 (3) Ceramics 2: Handbuilding

Introduces techniques of hand-built clay forms as they relate to function and nonfunction. Various clay techniques, glazing, and firing procedures are explored. Emphasizes ceramics in the broader context of contemporary art. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-2095 (3) Ceramics 2: Wheelthrowing

Introduces techniques of wheel-thrown forms as they relate to function and nonfunction. Explores various glazing and firing methods. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-2104 (3) Colossal Objects (Sculpture and Post-Studio Practice)

Focuses on the conception, design and production of art works that are larger than human scale. Each object will be the result of individual and team design collaboration. This course primarily focuses on sculpture constructed and engineered from metal although other materials are welcome. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-2126 (3) Digital Art 1

An introductory course in the use of the personal computer to create and process images in the visual arts. Prereq., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-2171 (3) Photography 1

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Credit not granted for this course and ARTS 1171. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-2184 (3) Nothing Flat: Project a Week (Sculpture & Post-Studio Practice)

Provides students the opportunity to work with a range of sculptural materials through a series of quick projects (e.g. installation, objects, writing). Students will learn to generate ideas quickly, engage issues and formats particular to sculpture, and produce a wide range of work over 15 weeks. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

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ARTS-1002 (3) Beginning Drawing 1

In this studio course the formal visual elements are presented through a study of spatial relationships. The course is built around a series of related problems, each of which is designed to develop fluency in drawing, offer experience in handling media, foster self-confidence, and promote an understanding of the visual elements and their role in the development of pictorial space. Prereqs., ARTS 1010, 1020, and 1030.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Painting/Drawing](#)

ARTS-1012 (3) Drawing for Non-Majors

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Painting/Drawing](#)

ARTS-1202 (3) Beginning Painting 1

The aim of this course is to develop the basic skills, techniques and processes of painting with an understanding of basic colour principles. This integration of paint application and colour principle will develop awareness that painting and colour are used, not only as mediums for representation, but also as mediums for expressive purposes. Demonstrations, lectures, group and individual critiques will be given throughout the course. Prereqs., ARTS 1010, 1020, and 1030.

[College of Arts & Sciences](#)
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ARTS-1212 (3) Painting for Non-Majors

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-2002 (3) Figure Drawing

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-2202 (3) Figure Painting

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-3002 (3) Drawing Alternative Process/Materials

Continuation of Drawing 2. Offers creative possibilities in drawing and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated once. Prereq., ARTS 2002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-3202 (3) Painting Alternative Process/Materials

Continuation of Painting 2. Offers creative possibilities in painting and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-3702 (3) Special Focus in Painting and Drawing

Offers varied focus and special topics in painting, drawing, and related media to explore specialized directions and creative possibilities. Emphasizes experimentation. Content varies by semester; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2002 or 2202. Recommended prereq., ARTS 3002 or 3202.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-3842 (1-3) Undergraduate Independent Study---Painting

Reserved for special projects in painting not offered in the curriculum. May be repeated up to 6 total credit hours. Prereqs., ARTS 3202 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-4002 (3) Advanced Drawing/Portfolio

Continuation of Drawing 3. Advanced studio class in drawing for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-4202 (3) Advanced Painting/Portfolio

Continuation of Painting 3. Advanced studio class in painting for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-5202 (3) Graduate Painting

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

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FILM-1002 (3) Film Analysis for Non-Majors

Introduces the critical study of film, exploring theoretical, historical, and technical concerns while presenting a survey of important film periods and genres. Students will hone critical-thinking, close-analysis, and writing skills. The course will cover a wide variety of films, approaching them from numerous perspectives, considering both the effects films have on individual viewers and their ability to reflect culture.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-1502 (3) Introduction to Film Studies

Introduces the technical and aesthetic principles behind the production, consumption, analysis, and interpretation of films. The purpose of this class is to help us understand and think about movies critically, as technological, cultural, and artistic products. We will study films in different contexts and discuss the importance of movies as cultural expression.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-2000 (3) Beginning Filmmaking

Instructs students in making Super-8 films. Covers use of cameras and editing equipment, basic editing and splicing techniques, and analysis of pertinent films. May emphasize making personal, experimental films or making narrative sound films, according to instructor. Students need to purchase materials and rent the necessary equipment. The Film Studies Program maintains an equipment pool with modest rental fees for students needing equipment. Prereq., FILM 1502.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-2002 (3) Recent International Cinema

Familiarizes students with current trends and major directors in international cinema. Students attend specific films screened in class and/or offered in the International Film Series, and read and write about these films. Prereq., FILM 1502 or 6 hours humanities courses involving critical writing.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-2003 (3) Film Topics

Varying topics on important individuals, historical developments, groupings of films, film directors, critical and theoretical issues in film. May be repeated up to 9 total credit hours, provided the topics are different.

College of Arts & Sciences | Film Studies | Topics

FILM-2005 (3) Movies and Screenplay Analysis

Analyzes the narrative structure of films and screenplays. Familiarizes students with the specific narrative characteristics of the classic motion picture, the three-act structure, and the multiple tasks involved in the process of adaptation. Dissects the form and structure of feature films through analyzing movies and screenplays. Prereq., FILM 1502.

College of Arts & Sciences | Film Studies | Workshops

FILM-2010 (3) Moving Image Computer Foundations

Provides students with artistic foundational hands-on experience in integrated use of media software in both the PC and Mac creative imaging making digital working environments. Includes fundamentals in general computer maintenance, creative and practical audio editing, image management and manipulation, and creative moving image practice. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-2105 (3) Introduction to the Screenplay

Explores, through close reading and original student work, the form and structure of the screenplay from the writer's perspective. Students will begin by analyzing structural and character elements of such screenplays as Chinatown and Witness, then analyze screenplays of their choosing. Students will learn the basics of screenwriting form, then develop and write 10 minutes of an original screenplay. Prereq., FILM 1502. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

College of Arts & Sciences | Film Studies | Workshops

FILM-2300 (3) Beginning/Intermediate Filmmaking

Covers basic camera, editing, and splicing techniques for Super-8 film. Equipment is available at the film studies office for a modest rental fee. Prereq., FILM 1502.

College of Arts & Sciences | Film Studies | Production

FILM-2312 (3) Film Trilogies

Study of films designed as trilogies, drawing on a wide range of international cinema. Films include Satyajit Ray's Apu Trilogy (India), Krzysztof Kieslowski's Three Colors Trilogy (Poland), Francois Truffaut's Antoine Doinel cycle (France), and Abbas Kiarostami's Iran Trilogy (Iran). Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-2500 (3) Introduction to Cinematography

Film production class focusing on developing a basic understanding of the aesthetics and principles of Cinematography. Through projects, screenings, and critiques, students learn creative camera lighting processes. Prereqs., FILM 1502 and 2000 or 2300 with an averaged combined grade in these two courses of 3.00, with a minimum overall GPA of 2.0. Restricted to FILM majors.

Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-2513 (3) Major Asian Filmmakers

Surveys the major Asian directors from China, India, Japan, Taiwan, and Vietnam. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences | Film Studies | Topics

FILM-2521 (3) Classics of the Foreign Film: 1960s to Present

Surveys the classics of international cinema from the 1960s to the present. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences | Film Studies | History

FILM-2610 (3) Animation Production

Includes analysis of independent and experimental animation and an introduction to various animation techniques (object, line, collage, sand or paint on glass, Xerox, cameraless, pixellation, etc.). Students produce exercise films and a final film exploring these techniques. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 2500.

College of Arts & Sciences | Film Studies | Production

FILM-2613 (3) Exploring Good and Evil Through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in film. Same as FARR 2510. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Film Studies | Topics

FILM-2900 (3) Lighting

Covers the basics of "Why you need lighting", color temp, as well as camera techniques, lighting theory, and lighting set-ups for still and motion picture film video. Emphasizes hands on as well as theory. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 1502.

College of Arts & Sciences | Film Studies | Production

FILM-3002 (3) Major Film Movements

Historical-aesthetic survey dealing with various national cinemas, taught in conjunction with the appropriate language department. Typical offerings are the French film, the German film, the Russian film, and so on. Also offers a more detailed approach to a more restricted subject, i.e., film comedy, women filmmakers, German expressionist cinema, Italian neorealism. May be repeated up to 12 total credit hours within the same term with departmental consent. Restricted to FILM/FMST majors. Non-majors will need instructor's consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3003 (3) Major Film Directors

Focuses on the work of a single director or a group of related directors. Course content varies each semester. Consult the online Schedule Planner for specific topic. May be repeated up to 12 total credit hours with departmental consent. . Non-majors need instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Topics

FILM-3004 (3) Films of Alfred Hitchcock

Intensive, critical investigation of the films of one of cinema's greatest directors, Alfred Hitchcock. Concepts to be examined include authorship, desire, gender, and film acting. Critical and theoretical writings about Hitchcock are explored. Paper and exams required. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-3010 (1-3) Film Production Topics

Offers students both theoretical and practical experience in various specialized areas of cinematic production. Topics vary but include production in the documentary, fictional narrative, animation, computer animation, and experimental genres. May be repeated up to 9 total credit hours. Prereq., FILM 2000 or 2300. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3012 (3) Documentary Film

Provides a historical and theoretical introduction to the documentary film. Examines the historical beginnings of documentary film as well as exploring contemporary documentary practice. Canonical moments of documentary history and lesser known examples of documentary film work will be explored. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3013 (3) Women and Film

Examines the representation of women both in mainstream movies and in women's counter-cinema that resists traditional form, content, and spectator-text relationships of Hollywood models. Emphasizes work by key women filmmakers such as Margarethe Von Trotta, Lizzy Borden, and Yvonne Rainer, as well as readings in feminist film theory. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Film Studies | Topics

FILM-3022 (3) Jung, Film and Literature

The basic themes of C. G. Jung's archetypal psychology (shadow, anima/animus, character typology, and individuation) are studied and applied as tools of critical analysis to selected films and literary texts of the modern period. Instructor consent required. Same as HUMN 3015.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3030 (3) Cinema Alternative Process

Explores alternative methods of film processing and filmic image manipulation. Through projects, film screenings, lectures and discussions students will learn fine arts approaches to creative control for the moving image. Prereq., FILM 1502, 2000, 2300 or 2500, or instructor consent. Restricted to BFA majors.

College of Arts & Sciences | Film Studies | Production

FILM-3032 (3) Stage Tragedy and Film

Presents an aerial survey of the history of Western drama as represented in film: Greek drama, the Elizabethans, Ibsen/Strindberg to O'Neill/Williams, Beckett, etc. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

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FILM-1002 (3) Film Analysis for Non-Majors

Introduces the critical study of film, exploring theoretical, historical, and technical concerns while presenting a survey of important film periods and genres. Students will hone critical-thinking, close-analysis, and writing skills. The course will cover a wide variety of films, approaching them from numerous perspectives, considering both the effects films have on individual viewers and their ability to reflect culture.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-1502 (3) Introduction to Film Studies

Introduces the technical and aesthetic principles behind the production, consumption, analysis, and interpretation of films. The purpose of this class is to help us understand and think about movies critically, as technological, cultural, and artistic products. We will study films in different contexts and discuss the importance of movies as cultural expression.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-2002 (3) Recent International Cinema

Familiarizes students with current trends and major directors in international cinema. Students attend specific films screened in class and/or offered in the International Film Series, and read and write about these films. Prereq., FILM 1502 or 6 hours humanities courses involving critical writing.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-2312 (3) Film Trilogies

Study of films designed as trilogies, drawing on a wide range of international cinema. Films include Satyajit Ray's Apu Trilogy (India), Krzysztof Kieslowski's Three Colors Trilogy (Poland), Francois Truffaut's Antoine Doinel cycle (France), and Abbas Kiarostami's Iran Trilogy (Iran). Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3002 (3) Major Film Movements

Historical-aesthetic survey dealing with various national cinemas, taught in conjunction with the appropriate language department. Typical offerings are the French film, the German film, the Russian film, and so on. Also offers a more detailed approach to a more restricted subject, i.e., film comedy, women filmmakers, German expressionist cinema, Italian neorealism. May be repeated up to 12 total credit hours within the same term with departmental consent. Restricted to FILM/FMST majors. Non-majors will need instructor's consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3012 (3) Documentary Film

Provides a historical and theoretical introduction to the documentary film. Examines the historical beginnings of documentary film as well as exploring contemporary documentary practice. Canonical moments of documentary history and lesser known examples of documentary film work will be explored. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3022 (3) Jung, Film and Literature

The basic themes of C. G. Jung's archetypal psychology (shadow, anima/animus, character typology, and individuation) are studied and applied as tools of critical analysis to selected films and literary texts of the modern period. Instructor consent required. Same as HUMN 3015.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3032 (3) Stage Tragedy and Film

Presents an aerial survey of the history of Western drama as represented in film: Greek drama, the Elizabethans, Ibsen/Strindberg to O'Neill/Williams, Beckett, etc. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3042 (3) Horror Film

Serious investigation of the horror film genre as well as its origins in, and relation to, works of romanticist literature (e.g., Poe, Shelley). Issues include: the relation of fantasy and reality; gender in horror film; psychological issues raised by the films; historical issues generated by the genre. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3402 (3) European Film and Culture

Studies the relationships between European film, art, and culture. Offered each summer in a different European city (viz, Rome, Paris, London, Athens, Barcelona). There will be regular in-class lectures, film screenings, field trips, and on-site teaching. May be repeated up to 12 total credit hours. Recommended prereq., introductory film and art history courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3422 (3) Genre: The Hollywood Musical

Second only to jazz, some critics regard the Hollywood musical as the greatest American popular art form of the 20th century. This course proposes a historical, formal, and theoretical approach to the musical through its several iterations, from the classical, to the revisionist, to the unusual, placing the changes in the genre's form, structure, and ideology in the context of America's changing social, political, and religious values. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

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ARTS-1003 (3) Printmaking for Non-Majors

Emphasizes processes involved with both nonmultiple and multiple methods, including but not limited to metal plate etching (intaglio), lithography, collagraph, woodcut, linoleum cut, Xerox transfer, and monotype. Places equal emphases on developing drawing skills and understanding design principles.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Printmaking](#)

ARTS-3403 (3) Intaglio and Relief 1

Introduces the study and experimentation of intaglio and relief processes in black and white, color, and possible photo imagery. May be repeated up to 6 total credit hours. Taught with ARTS 4403/5403. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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[Printmaking](#)

ARTS-3413 (3) Lithography 1

Introduces the study of stone and metal plate lithography, emphasizing individual creative development in black and white and further development in color printing processes. May be repeated up to 6 total credit hours. Not available to freshmen. Taught with ARTS 4413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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[Printmaking](#)

ARTS-3423 (3) Screen Printing 1

Introduces the study of silkscreen techniques, emphasizing creativity, individual development, and experimentation in contemporary silkscreen processes. May be repeated up to 6 total credit hours. Not available to freshmen.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4403 (3) Intaglio and Relief 2

Continues the study and experimentation of intaglio and relief processes in black and white, color, digital imagery, and nontoxic processes as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3403. Taught with ARTS 3403/5403. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4413 (3) Lithography 2

Continues the study of stone and metal plate lithography, emphasizing individual creative development in black and white, and further development in color printing processes. In addition, digital imaging and nontoxic processes are emphasized as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3413. Taught with ARTS 3413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4423 (3) Screen Printing 2

Introduces advanced screen printing technology, emphasizing individual creativity and the ability to resolve problems of two-dimensional form. May be repeated up to 12 total credit hours. Prereq., ARTS 3423.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4433 (3) Alternative Printmaking (Non-Toxic)

Introduces computer-generated imaging and developing ideas as related to traditional forms of printmaking. Emphasizes original development of ideas and skills involved in learning advanced printing processes in lithography and intaglio media. May be repeated up to 12 total credit hours. Same as ARTS 5433. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4453 (3) Monotype Printing

Introduces monotype printing, with the uniqueness and diversity of its methods of producing art. The process uses some of the best qualities of painting, print making, and drawing. Emphasizes creative individual development, along with processes inherent to this media. May be repeated up to 6 credit hours. Same as ARTS 5453.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5403 (3) Graduate Intaglio and Relief

May be repeated up to 18 total credit hours. Taught with ARTS 3403/4403. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5413 (3) Graduate Lithography

May be repeated up to 18 total credit hours. Taught with ARTS 3413/4413. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5423 (3) Graduate Screen Printing

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5433 (3) Graduate Alternative Printmaking (Non-Toxic)

May be repeated up to 12 total credit hours. Same as ARTS 4433. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5453 (3) Graduate Monotype Printing

Same as ARTS 4453. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

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SOCY-1001 (3) Introduction to Sociology

Examines basic sociological ideas including social relations, social interaction, social structure, and social change. Examples are drawn from societies around the world. Meets MAPS requirement for social science: general. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) | [Sociology](#) | [General Sociology](#)

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ARTS-1002 (3) Beginning Drawing 1

In this studio course the formal visual elements are presented through a study of spatial relationships. The course is built around a series of related problems, each of which is designed to develop fluency in drawing, offer experience in handling media, foster self-confidence, and promote an understanding of the visual elements and their role in the development of pictorial space. Prereqs., ARTS 1010, 1020, and 1030.

[College of Arts & Sciences](#) | [Art & Art History](#) | [Painting/Drawing](#)

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FILM-1002 (3) Film Analysis for Non-Majors

Introduces the critical study of film, exploring theoretical, historical, and technical concerns while presenting a survey of important film periods and genres. Students will hone critical-thinking, close-analysis, and writing skills. The course will cover a wide variety of films, approaching them from numerous perspectives, considering both the effects films have on individual viewers and their ability to reflect culture.

[College of Arts & Sciences](#) | [Film Studies](#) | [Genre and Movements](#)

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ARTS-1003 (3) Printmaking for Non-Majors

Emphasizes processes involved with both nonmultiple and multiple methods, including but not limited to metal plate etching (intaglio), lithography, collagraph, woodcut, linoleum cut, Xerox transfer, and monotype. Places equal emphases on developing drawing skills and understanding design principles.

[College of Arts & Sciences](#) | [Art & Art History](#) | [Printmaking](#)

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FARR-1003 (1) Banned Books and the First Amendment

Focuses on a heated topic of discussion since the Constitution was drafted: the censorship of books. This class will look at some classics in literature: *Catcher in the Rye*, *The Color Purple*, and *Huck Finn*, and will explore the questions of why they were controversial and whether censorship of books is ever justified. Graded pass/fail.

[College of Arts & Sciences](#) | [Farrand Residential Academic Program](#)

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THTR-1003 (3) Acting for Nonmajors

Teaches the basic principles of acting for those withno previous acting experience, focusing on relaxation, concentration, improvisation, use of imagination, actions, objectives, initial monologue and scene work, and basic terms and concepts of process work for the actor.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Performance](#)

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THTR-1003 (3) Acting for Nonmajors

Teaches the basic principles of acting for those withno previous acting experience, focusing on relaxation, concentration, improvisation, use of imagination, actions, objectives, initial monologue and scene work, and basic terms and concepts of process work for the actor.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Performance](#)

THTR-2003 (3) Acting 1

Emphasizes principles of acting, focusing on exercises in relaxation, talking and listening, actions and objectives, and basic concepts of process work. Prerequisites: Restricted to Ttheatre (THTR, TBFA) Dance (DNCE, DBFA), Film or Arts and Sciences Open Option majors only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Performance](#)

THTR-2013 (3) Performance of Literature

Students learn to perceive literary form and content and to translate that perception into classroom performances of selected modern plays and stories. Performances, both solo and ensemble, embody literary texts diverse in terms of gender and ethnicity. Prereqs., 15 credit hours and THTR 1003, 2003 or 2043.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Performance](#)

THTR-2043 (3) Voice and Movement for the Stage

Natural resources of the human voice and body are studied as artistic resources for the performing artist. Designed to examine both the process and products of vocal and physical craft work.

Prerequisites: Restricted to Theatre (THTR, TBFA) or Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3013 (3) Studio 1: Building a Character

Students learn to deepen and develop their proficiency with specific acting techniques. Explores the craft elements of acting, as well as text analysis. Prereq., THTR 2003. Restricted to BFA

program in acting or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3023 (3) Studio 2: Creating a Role

Continued development of acting technique and tools for play analysis, with particular emphasis on scene study. Special attention will be given to the Master Teachers of Acting and their

pedagogies. Prereq., THTR 3013 or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3033 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, either within the major season or approved departmental production. Requires detailed preparational research, rehearsal commitments, and public presentation of theories and concepts in practice. Following the performance, students present written reports and evaluations. May be repeated up to 3 total credit hours. Prereq., THTR 2003 or 2043.

College of Arts & Sciences Theater & Dance Performance

THTR-3043 (3) Advanced Voice for the Stage

Continues the work begun in THTR 2043. Studies advanced vocal techniques with the goal of integrating these skills into the working process of the performing artist. Prereqs., THTR 2043 or

instructor consent. Prerequisites: Restricted to Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3053 (3) Acting 2

Continuation of the techniques introduced in the beginning acting courses (THTR 1003 and 2003). Emphasis is placed on monologues and scene study of contemporary plays. Basic techniques

in developing a character are explored. Prereq., THTR 1003 or 2003. Prerequisites: Restricted to Theatre, Music, Music Arts or Film Majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-4013 (3) Studio 3: Acting Shakespeare

In-depth study of Shakespearean texts from the perspective of their demands on the actor, including the conventions and performance styles of Elizabethan theatre. Prereqs., THTR 3013 and 3023, or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

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| College of Arts & Sciences | Theater & Dance | Performance |
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THTR-4023 (3) Studio 4: Playing with Styles

Studies selected styles of theatre performance such as Greek Drama, Comedy of Manners, Commedia Dell'art, Modern Realism, Theatre of Absurd, and Non-Western Theatre, including vocal and physical style elements. Prereq., THTR 3013, 3023, and 4013, or instructor consent.

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| College of Arts & Sciences | Theater & Dance | Performance |
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THTR-4033 (3) Advanced Movement for the Stage

Continues the work begun in THTR 2043. Studies the advanced physical techniques with the goal of integrating these skills into the working processes of the performing artist. Prereqs., THTR 2043 or instructor consent.

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| College of Arts & Sciences | Theater & Dance | Performance |
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THTR-4063 (3) Audition Techniques

Prepares students for the demands of the acting profession. Trains students in various audition techniques including general auditions, prepared auditions, cold readings, on-camera auditions, and commercial auditions. Shows how to prepare and perfect audition material in a professional and exemplary way. Discusses agents, casting directors, and the process of becoming a professional actor.

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| College of Arts & Sciences | Theater & Dance | Performance |
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THTR-4073 (3) Performing Voices of Women

Explores theories underlying the "Feminine voice," varied perspectives in prose and poetry, ways of embodying these voices and perspectives in performance forms, and ultimately the students' own voices through creation of autobiographical performance pieces (some to be presented for student audiences). Open to both men and women. Prereq., instructor consent. Same as WMST 4073.

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| College of Arts & Sciences | Theater & Dance | Performance |
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THTR-4103 (3) Acting for the Camera

Introduces fundamental tools of acting for the camera. Students learn basic film terminology, specific camera acting techniques, and the demands placed on an actor when shooting a film. Uses exercises, scenes, monologues, and readings to provide a solid understanding of how to create a character, analyze a text, utilize important vocabulary, and perform effectively on camera.

Prereq., THTR 1003 or 2003 or instructor consent.

College of Arts & Sciences Theater & Dance Performance

THTR-4193 (3) Studio 5: Creating an Ensemble

Students create an ensemble piece utilizing collaborative approaches. Emphasizes training actors in weaving personal, social, political, and cultural threads into an enactment. Prereqs., THTR 3013, 3023, 4013, 4023, or instructor consent.

College of Arts & Sciences Theater & Dance Performance

THTR-6003 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under faculty supervision and prepare a written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced studies in acting and advisor approval. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Performance

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FARR-1004 (1) Teen Trials and Tribulations in Literature

Discusses major themes and literary strategies in coming-of-age literature. Pass/fail only.

College of Arts & Sciences | Farrand Residential Academic Program

SOCY-1004 (3) Deviance in U.S. Society

Examines the social construction of deviance in the U.S., the process of acquiring a deviant identity and managing deviant stigma, and the social organization of deviant act, lifestyles, relationships and careers. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Sociology | Deviance and Criminology

FARR-1005 (1) Comics and the Interpretive Arts

Explores comic books as literature and visual art. This course will introduce methods of literary analysis and apply them to a specific medium of art: the comic book. Discussions will focus on content and form and will be guided by questions about the way in which art is defined and categorized. Graded pass/fail.

College of Arts & Sciences | Farrand Residential Academic Program

MATH-1005 (3) Introduction to College Mathematics

Introductory level mathematics course which presents a college level introduction to algebraic functions and their applications. Credit not granted for this course and MATH 1011. Course is only

offered through the Student Academic Service Center. Meets MAPS requirement for mathematics.

College of Arts & Sciences Mathematics

SOCY-1006 (3) The Social Construction of Sexuality

Discusses the social determinants of sexuality. Analyzes the economic, psychological, and cultural influences on human sexuality. Interactional perspective of human sexuality is presented. Same as WMST 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Sociology Sex and Gender

WMST-1006 (3) The Social Construction of Sexuality

Same as SOCY 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Womens Studies Sociology

THTR-1009 (3) Introduction to Theatre

Introduces the varieties of theatrical art, past and present, contributions of the various theatrical artists to the total production, and the place of theatre art in today's society. Designed for nonmajors. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

ARAB-1010 (5) Beginning Arabic 1

Introduces students to speaking, listening, reading, and writing skills in the standard means of communication in the Arab world. This course is proficiency-based. All activities within the course are aimed at placing the student in the context of the native-speaking environment from the very beginning.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARTS-1010 (3) Introduction to Studio Art

Presents creative activity conceptually, and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Fine arts majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Foundations

ASTR-1010 (4) Introductory Astronomy 1

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1000, but with additional lab experience. Also similar to ASTR 1030. Students may receive credit for only one of ASTR 1010, 1000, 1110, or 1030. Meets MAPS requirement for natural science: lab or non-lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

CHIN-1010 (5) Beginning Chinese 1

Introduces modern Chinese (Mandarin), developing all four skills (speaking, listening, reading and writing) and communicative strategies. Students learn both traditional full-form characters and the principles for converting them into simplified characters. Credit not granted for this course and CHIN 1150.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CLAS-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. No Greek or Latin required. Same as LING 1010.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

FREN-1010 (5) Beginning French 1

For students with no previous knowledge of French. Presents basic grammar and most commonly used French vocabulary. Introduces students to Francophone culture. Credit not granted for this course and FREN 1050.

College of Arts & Sciences | French & Italian | French

FRSI-1010 (5) Beginning Farsi I

Provides a grounding in basic Persian Farsi grammar. The morphological and phonological nuances of the language will be introduced, along with Persian culture. Basic conversation is re-enforced on a daily basis with strong emphasis and reiteration upon the homework and covered grammar.

College of Arts & Sciences | Asian Languages & Civilizations | Farsi

GEOL-1010 (3) Introduction to Geology

Introductory geology for majors and nonmajors. Studies Earth, its materials, its characteristics, its dynamic processes, and how it relates to people. Separate lab (GEOL 1030) is optional. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Earth & Planetary Sciences

College of Arts & Sciences | Geological Sciences

GRMN-1010 (4) Beginning German 1

For students with no previous training in German. Credit not granted for this course and GRMN 1030.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

HEBR-1010 (4) Beginning Hebrew 1

First semester Hebrew is a beginning level course designed for students who have little or no prior knowledge of Hebrew. Begins with learning the Hebrew alphabet and immediately starts developing rudimentary Hebrew conversational, reading and writing skills. By the end of the semester students are expected to have attained basic understanding and expressive abilities in Hebrew.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HIND-1010 (5) Beginning Hindi 1

Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading, and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local South Asian cultural events. Credit not granted for this course and ASIA 1420. Formerly HINDI 1010.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIST-1010 (3) Western Civilization 1: From Antiquity to the 16th Century

Surveys the development of Western civilization from its beginnings in the ancient near East through the Reformation of the 16th century. Also available through correspondence study. Credit not granted for this course and HIST 1030. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Methods, Comparative, Global

HUMN-1010 (6) Introduction to Humanities 1

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Provides an analytical and comparative study of works in literature, music, and visual arts from Aegean to Baroque eras. Emphasizes structure, content, and style in specific examples. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Humanities

INDO-1010 (5) Beginning Indonesian 1

Provides a thorough introduction to the modern Indonesian language, emphasizing speaking, listening, reading and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement.

College of Arts & Sciences | Asian Languages & Civilizations | Indonesian

ITAL-1010 (5) Beginning Italian 1.

The four skills of listening, speaking, reading, and writing are progressively developed in a predominantly oral presentation. Grammatical concepts are explained and practiced through dialogues, written exercises, and conversations. The cultural focus is on the personal world and life of students.

College of Arts & Sciences | French & Italian | Italian

JPNS-1010 (5) Beginning Japanese 1

Provides a thorough introduction to modern Japanese, emphasizing speaking, listening, reading, and writing in a cultural context.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

KREN-1010 (5) First-Year (Beginning) Korean 1

Trains students in elementary conversational and writing skills and provides grounding in the basic idiomatic and syntactical features of Korean, through lectures, drills, and language laboratory sessions based on set dialogues and readings.

College of Arts & Sciences | Asian Languages & Civilizations | Korean

LING-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. Same as CLAS 1010.

College of Arts & Sciences | Linguistics

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NORW-1010 (4) Beginning Norwegian 1

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Norwegian](#)

PHIL-1010 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. PHIL 1010 and 1020 may be taken in either order. Same as CLAS 1030. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[Philosophy](#)

PHYS-1010 (3) Physics of Everyday Life 1

Intended primarily for nonscientists, this course covers physics encountered in everyday life. Topics include balls, scales, balloons, stoves, insulation, light bulbs, clocks, nuclear weapons, basics of flashlights, and microwave ovens. Prereq., high school algebra or equivalent. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. However, this course should not be taken if the student has a MAPS deficiency in math. Approved for arts and sciences core curriculum: natural science or quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#)
[Physics](#)

PORT-1010 (5) Beginning Portuguese 1

Offers students a firm command of Portuguese grammar. Uses grammar as point of departure for development of oral skills. Reading and writing stressed to lesser degree. Attendance at

language laboratory may be mandatory.

College of Arts & Sciences Spanish Portuguese

RUSS-1010 (4) Beginning Russian 1

For students with no previous training in Russian. Credit not granted for this course and RUSS 1050.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

SLHS-1010 (3) Disabilities in Contemporary American Society

Addresses the issue that 50 percent of all individuals experience disability in their lifetime. Introduces students to the social, cultural, psychological, economic, political, legal, and health-care issues related to society and individuals with disabilities. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SNSK-1010 (3-4) Introductory Sanskrit 1

College of Arts & Sciences Religious Studies Sanskrit

SPAN-1010 (5) Beginning Spanish 1

Offers students a firm command of Spanish grammar. Grammar is used as a point of departure for development of oral skills. Reading and writing are stressed to a lesser degree. Attendance at the language laboratory may be mandatory. Credit not granted for this course and Span 1150.

College of Arts & Sciences Spanish Spanish

SWED-1010 (4) Beginning Swedish 1

College of Arts & Sciences Germanic & Slavic Languages & Literature Swedish

TBTN-1010 (4) Beginning Colloquial Tibetan I

Provides a thorough introduction to colloquial forms of Tibetan. This course focuses on conversation practice, the acquisition of basic vocabulary and grammar in colloquial usage, learning the alphabet, and training in the skills of pronunciation, spelling and handwriting.

College of Arts & Sciences | Asian Languages & Civilizations | Tibetan

YIDD-1010 (4) Beginning Yiddish 1

Introduces students to speaking, listening, reading, and writing skills in the historic language of Ashkenazic Jewry. Uses grammar as point of departure for development of oral skills.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish

ARAB-1011 (3) Introduction to Arab and Islamic Civilizations

Provides an interdisciplinary overview of the cultures of the Arabic-speaking peoples of Southwest Asia and North Africa from the rise of Islam in the 7th century to the present. Readings include historical, religious, literary and cultural texts from both the medieval and modern eras. Taught in English. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

CHEM-1011 (3) Environmental Chemistry 1

Lect. Introduces basic principles of chemistry with applications to current environmental issues including toxic chemicals, air and water pollution, energy sources and their environmental impact, and climate change resulting from the greenhouse effect. No credit given to chemistry or biochemistry majors for CHEM 1011 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Chemistry

FRSI-1011 (3) Introduction to Persian Civilization

An introduction to the history, literature and art of Iranian (Persian) civilization with a focus on the social and cultural aspects of contemporary Iran. Taught in English.

College of Arts & Sciences | Asian Languages & Civilizations | Farsi

GEOG-1011 (4) Environmental Systems 2---Landscapes and Water

MLect. and lab. Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geography | Physical Geography

HIND-1011 (3) Introduction to South Asian Civilizations

Survey of traditional and modern world views and experiences of people on the Indian subcontinent through literature and film, beginning with the Ramayana and including medieval tales, modern novels, and feature films. Formerly HNDI 1011. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

INDO-1011 (3) Introduction to Indonesian Civilization

Provides an overview of the past and present of Indonesia, the people, and their cultures. Discussions with guest speakers, and on films, music, and images, will allow them to get acquainted with important issues and values in today's Indonesia. A closer look to the five major islands in the archipelago will introduce them to the diversity of this nation's 234,693,997 people. Taught in English.

College of Arts & Sciences | Asian Languages & Civilizations | Indonesian

KREN-1011 (3) Introduction to Korean Civilization

Introduces the history of Korean culture within the context of political, social, and economic history. Covers the old Choson dynasty to present day Korea. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Korean

MATH-1011 (3) Fundamentals and Techniques of College Algebra

Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions, and graphs, and systems of equations. Credit not granted for this course and MATH 1005 or 1150. Prereq., one year high school algebra. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Mathematics

THTR-1011 (3) Development of Theatre 1: Forms of Classical Theatre and Drama

Examines the interaction of dramatic literature and performance in classical forms of European and Asian theatre, including Greek, Roman, Indian, Japanese, Medieval, and Renaissance European. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing

ARTS-1012 (3) Drawing for Non-Majors

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated.

College of Arts & Sciences | Art & Art History | Painting/Drawing

CHIN-1012 (3-4) Introduction to Chinese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of China. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

DNCE-1012 (2) Dance Production 1

Provides the dancer with an introduction to the types of performance venues available today, and their technical systems and equipment. It will also establish an awareness of how technical theatre design arts may be utilized by a choreographer. Restricted to dance majors. Credit not granted for this course and DNCE 2012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences | Theater & Dance | Production

JPNS-1012 (3-4) Introduction to Japanese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of Japan. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese Courses in English

MATH-1012 (3) Quantitative Reasoning and Mathematical Skills

Promotes mathematical literacy among liberal arts students. Teaches basic mathematics, logic, and problem-solving skills in the context of higher level mathematics, science, technology, and/or society. This is not a traditional math class, but is designed to stimulate interest in and appreciation of mathematics and quantitative reasoning as valuable tools for comprehending the world in which we live. Credit not granted for this course and QRMS 1010. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Mathematics



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CLAS-1013 (4) Beginning Classical Greek 1

For students with no previous knowledge of Greek. Introduces basic grammar and vocabulary.

[College of Arts & Sciences](#) [Classics](#) [Greek](#)

DNCE-1013 (2) Dance Improvisation

An opportunity for students to develop skills of dance improvisation through the exploration of structured movement problems. Students study selected contemporary dance artists whose work stresses improvisation in performance and/or as a training vehicle. Restricted to dance majors. Formerly DNCE 2013. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Creative Process](#)

CLAS-1014 (4) Beginning Latin 1

Introduces basic grammar and vocabulary. For students with no previous knowledge of Latin.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

HIST-1015 (3) History of the United States to 1865

Surveys American history from first settlement until end of the Civil War. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | History | US: Chronological Periods

SOCY-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as WMST 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Sociology | Sex and Gender

WMST-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as SOCY 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Sociology

DNCE-1017 (3) Dance and Popular Culture

Explores and contextualizes contemporary popular culture and dance. Introduces methods of critical analysis that reveal the rich heritage hidden within and around the dances students commonly encounter at the club, on the street, on television, on the big screen and elsewhere in everyday life. Through watching, reading, and discussion, students discover new meaning in their lived cultural experience. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Theater & Dance | Dance and Cultural Studies

HIST-1018 (3) Introduction to Early Latin American History to 1810

Introduces students to the history of what is now called Latin America from about 1450 to the wars of independence in the nineteenth century. The course examines pertinent aspects of the societies and cultures of indigenous people, the history of European conquest, and the most salient features of the Spanish and Portuguese colonial empires in America. Students who have taken HIST 1038 may not receive credit for either HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

THTR-1019 (3) Theatre Foundations: Text Analysis and Practice for the Theatre Arts

Introduces fundamental methods of text analysis for the stage, presents common vocabulary and concepts of the theatre event as an art form and how it works, and what playmaking means to those who do it. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Theatre (THTR or TBFA) majors only.

College of Arts & Sciences | Theater & Dance | Special Courses in Theatre

ARAB-1020 (5) Beginning Arabic 2

Continuation of ARAB 1010. Prereq., ARAB 1010 (min grade C) or placement.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

ARTS-1020 (3) Introduction to Studio Art 2

Presents creative activity conceptually and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Art and art history majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prereq., ARTS 1010. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Foundations

ASTR-1020 (4) Introductory Astronomy 2

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1200, but with recitation and sequence link to ASTR 1010. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1020, 1200, 1120, or 1040. Prereq., ASTR 1010 or 1000. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

CHIN-1020 (5) Beginning Chinese 2

Continuation of CHIN 1010. Prereq., CHIN 1010 (min. grade C) or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CLAS-1020 (3) Argument from Evidence: Critical Writing about the Ancient World

Introduces students to writing about the ancient world, with special attention to the possibilities and the limitations of ancient source-material. Taught as a writing workshop, with emphasis on critical thinking, analysis, argument and inquiry. While the course reads foundational ancient texts, the skills acquired will be broadly useful among humanities disciplines. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

DNCE-1020 (1) Beginning Modern Dance with Experience

Studio course that continues the work from the beginning level on basic concepts and skills in modern dance technique to increase strength, flexibility, and coordination. May be repeated up to 2 total credit hours. Prereq., DNCE 1000.

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| College of Arts & Sciences | Theater & Dance | Nonmajor Technique |
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FREN-1020 (5) Beginning French 2

Continuation of FREN 1010. Completes the presentation of most basic structures and French vocabulary. Prereq., successful completion of one semester of college-level French or two years of high school French. Credit not granted for this course and FREN 1050.

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| College of Arts & Sciences | French & Italian | French |
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FRSI-1020 (5) Beginning Farsi II

Continuation of FRSI 1010. Completes the presentation of basic structures of Farsi. Continued acquisition of vocabulary and practice of speaking, listening, reading, and writing. Class conducted largely in Farsi. The second half of the course will introduce authentic texts of Persian prose literature. Some poetry may be included. Prereq., FRSI 1010 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Farsi |
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GEOL-1020 (3) Introduction to Earth History

Examines how Earth's interior and surface, the atmosphere and climate, the oceans, and life interact and have changed over the immensity of geologic time. For majors and non-majors. Separate lab (GEOL 1030) is optional. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1040. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

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| College of Arts & Sciences | Geological Sciences |
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GRMN-1020 (4) Beginning German 2

Prereq., GRMN 1010 (min grade of C-). Credit not granted for this course and GRMN 1030.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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HEBR-1020 (4) Beginning Hebrew 2

Second semester builds on Hebrew skills introduced in the first semester, with a focus on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms. The course blends a communicative method with formal grammatical instruction. By the end of this semester students are expected to be able to converse in, comprehend, and produce written basic Hebrew. Prereq., HEBR 1010 (min. grade C-) or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew |
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HIND-1020 (5) Beginning Hindi 2

Continuation of HIND 1010. Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading and writing skills. Proficiency-based course aims to place the student in the context of the native-speaking environment from the beginning of the course. Provides opportunities to participate in local South Asian cultural activities and events. Prereq., HIND 1010 (min. grade C) or instructor consent. Formerly HNDI 1020.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIST-1020 (3) Western Civilization 2: 16th Century to the Present

Surveys political, economic, social, and intellectual developments in European history from the 16th century to the present. Similarities and contrasts between European states are underscored, as is Europe's changing role in world history. Also available through correspondence study. Credit not granted for this course and HIST 1040. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Methodo, Comparative, Global

HUMN-1020 (6) Introduction to Humanities 2

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Examines from Baroque to contemporary styles in literature, music, and visual arts. Emphasizes the cultural context in which art was created. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Humanities

INDO-1020 (5) Beginning Indonesian 2

Continuation of INDO1010. Provides a thorough introduction to the modern Indonesian language, emphasizing the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local Southeast Asian events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq., INDO 1010 (min. grade C).

College of Arts & Sciences | Asian Languages & Civilizations | Indonesian

ITAL-1020 (5) Beginning Italian 2

Continuation of ITAL 1010, with more difficult grammatical concepts explored. The cultural focus shifts to social and civic areas. Prereq., ITAL 1010 (min grade C-).

College of Arts & Sciences | French & Italian | Italian

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JPNS-1020 (5) Beginning Japanese 2

Continuation of JPNS 1010. Prereq., JPNS 1010 (min grade C) or instructor consent.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Japanese](#)

KREN-1020 (5) First-Year (Beginning) Korean 2

Continuation of KREN 1010. Prereq., KREN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Korean](#)

LING-1020 (3) Languages of the World

Explores the issue of human diversity by examining how languages vary around the world. Outlines historical, geographic, and typological classifications of languages across human societies, and the criteria used by linguists for grouping them into language families. Theorizes the relationship between linguistic and cognitive diversity, and considers the impact of language death on humanity. No formal training in linguistics is required. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Linguistics](#)

NORW-1020 (4) Beginning Norwegian 2

Prereq., NORW 1010 with a grade of C- or better.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian |
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PHIL-1020 (3) Introduction to Western Philosophy: Modern

Introduces several philosophical texts and doctrines of 17th and 18th century Europe. Gives special attention to the connection between philosophical ideas and the wider historical milieu--social, political, and literary. PHIL 1010 and 1020 may be taken in either order. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

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| College of Arts & Sciences | Philosophy |
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PHYS-1020 (4) Physics of Everyday Life 2

Intended primarily for nonscientists, this course is a continuation of PHYS 1010. Includes electrical power generation and distribution, electrical motors, radio, television, computers, copiers, lasers, fluorescent lights, cameras, and medical imaging. Prereqs., PHYS 1010 and high school algebra. Approved for GT-SC1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills or natural science.

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| College of Arts & Sciences | Physics |
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PORT-1020 (5) Beginning Portuguese 2

Continuation of PORT 1010. Prereq., PORT 1010 (min. grade C-) or placement.

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| College of Arts & Sciences | Spanish | Portuguese |
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RUSS-1020 (4) Beginning Russian 2

Continuation of RUSS 1010. Prereq., RUSS 1010 (min grade of C-). Credit not granted for this course and RUSS 1050.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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SEWL-1020 (1-3) Topics-Social Sciences 1

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| College of Arts & Sciences | Sewall Residential Academic Program |
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SNSK-1020 (3-4) Introductory Sanskrit 2

Prereq., SNSK 1010.

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| College of Arts & Sciences | Religious Studies | Sanskrit |
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SPAN-1020 (5) Beginning Spanish 2

Continuation of Span 1010. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1010 (mingrade of C-), or placement. Credit not granted for this course and SPAN 1150.

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| College of Arts & Sciences | Spanish | Spanish |
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SWED-1020 (4) Beginning Swedish 2

Prereq., SWED 1010 (min grade of C-).

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish |
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TBTN-1020 (4) Beginning Colloquial Tibetan II

Provides a thorough introduction to colloquial forms of Tibetan. This course continues the development of vocabulary and grammar begun in Tibetan I and expands the range of conversation topics. While students focus on oral and aural skills, they begin to learn to read and write modern Tibetan to produce an overall knowledge of the language. Prereq., TBTN 1010 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Tibetan |
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YIDD-1020 (4) Beginning Yiddish 2

Continuation of YIDD 1010. Prereq., YIDD 1010 (min. grade C-) or placement.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish |
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CHEM-1021 (4) Introductory Chemistry

Lect. and lab. For students with no high school chemistry or a very weak chemistry background. Remedies a deficiency in natural science MAPS requirements and prepares students for CHEM 1113/1114. No credit given to chemistry or biochemistry majors for CHEM 1021 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., one year high school algebra or concurrent enrollment in MATH 1011. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

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| College of Arts & Sciences | Chemistry |
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MATH-1021 (2) Numerical and Analytical College Trigonometry

Covers trigonometric functions, identities, solutions of triangles, addition and multiple angle formulas, inverse and trigonometric functions, and laws of sines and cosines. Credit not granted for this course and MATH 1150, 1030 or 1040. Prereqs., MATH 1011 or 1020 or 1 1/2 years of high school algebra and 1 year of high school geometry.

College of Arts & Sciences Mathematics

SOCY-1021 (3) United States Race and Ethnic Relations

An examination of race and minority problems in U.S. society, including the psychological, social, and cultural sources of prejudice and discrimination. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Sociology General Sociology

ETHN-1022 (3) Introduction to Africana Studies

Overview of Africana studies as a field of investigation, its origins, and history. Formerly ETHN 2002. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies Africana Studies

SOCY-1022 (3) Ethics and Social Issues in U.S. Health and Medicine

Explores current ethical and policy issues in U.S. health and medical practices. Includes such issues as alcohol and drug abuse, organ transplants and substitutes, genetic engineering, contraception, abortion, occupational safety and health, and euthanasia. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Sociology Population and Health Issue

CLAS-1023 (4) Beginning Classical Greek 2

Completes the presentation of grammar and introduces reading of literature. Prereq., CLAS 1013 or equivalent.

College of Arts & Sciences Classics Greek

ETHN-1023 (3) Introduction to American Indian Studies

Introduces critical terms, issues, and questions that inform the discipline of American Indian Studies. Examines "historical silences" and highlights how American Indian scholars, poets, and filmmakers use their work to address/redress historical subjects, and represent their Native communities. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies American Indian Studies

CLAS-1024 (4) Beginning Latin 2

Completes the presentation of grammar, incorporates review of fundamentals, and introduces reading of literature. For students with previous experience of Latin. Prereq., CLAS 1014 or equivalent.

College of Arts & Sciences | Classics | Latin

ETHN-1025 (3) Introduction to Asian American Studies

Examines the various factors that define minority groups and their positions in American society using Asian Americans as a case study. Emphasizes the perspectives and methodologies of the discipline of ethnic studies. Formerly AAST 1015. Approved for arts and sciences core curriculum: contemporary societies or human diversity.

College of Arts & Sciences | Ethnic Studies | Asian American Studies

HIST-1025 (3) History of the United States since 1865

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | History | US: Chronological Periods

DNCE-1027 (3) Introduction to Dance and Culture

Explores dance's relationship to broad cultural realities such as food getting, sexuality, rites of passage, work, and religion. Topics are explored by looking at several different cultural groups and how their dance functions in relation to the specific topic. (For example, dance as a function of religion could be studied through explorations into Afro-Cuban orisha dances, Bharata Natyam, and Hopi Ghost dancing.) Formerly DNCE 1029. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Theater & Dance | Dance and Cultural Studies



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HIST-1028 (3) Introduction to Modern Latin American History since 1800

Introduces students to the history of Latin America from independence to the present. The course investigates the social implications of various models of economic development, the opportunities and difficulties resulting from economic ties with wealthier countries, the consequences of ethnic, gender and class divisions, and the struggles of Latin Americans to construct equitable political systems. Students who have taken HIST 1038 may not receive credit for HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[World Areas: Specific Regions](#)

ANTH-1030 (3) Principles of Anthropology 1

Evolution of humanity and culture from beginnings through early metal ages. Covers human evolution, race, prehistory, and rise of early civilizations. This course is taught through Continuing Education. Meets MAPS requirements for social science: general.

[College of Arts & Sciences](#)
[Anthropology](#)

ARTS-1030 (3) Principles of Color

Introduces the relative effects of color as used by the artist. Emphasizes the practice of color relations including basic characteristics, mixtures, illusions, optical mixture, color intervals, and color quantity. May not be repeated.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Foundations](#)

ASTR-1030 (4) Accelerated Introductory Astronomy 1

Covers principles of modern astronomy summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1030, 1010, 1000, or 1110. Similar to ASTR 1010 and 1000, but taught at a higher intellectual level, including a significant amount of quantitative analysis. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

CLAS-1030 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. No Greek or Latin required. Same as PHIL 1010. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

EBIO-1030 (3) Biology: A Human Approach 1

Lect. Studies the principles of biology and their implications. Central theme is humans and the environment, emphasizing ecology, natural resource conservation, and the interrelatedness of a growing human population. Recommended for nonscience majors. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Ecology & Evolutionary Biology

GEOL-1030 (1) Introduction to Geology Laboratory 1

Features field trips to local points of geologic interest. Studies rocks and topographic and geologic maps. Prior or current registration in 1000-level geology recommended. Approved for GT-SC1. Meets MAPS requirements for natural science lab, if taken with GEOL 1010. Approved for arts and sciences core curriculum: natural science. Formerly GEOL 1080.

College of Arts & Sciences | Geological Sciences

GRMN-1030 (5) Intensive Beginning German

Covers the same material as GRMN 1010 and GRMN 1020 in one course. Focuses on acquiring ability to understand and speak everyday German; on developing reading and writing skills; and on learning about the cultures of the German-speaking countries. Credit not granted for this course and GRMN 1010 and GRMN 1020.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

HEBR-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as JWST 1030.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

JWST-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as HEBR 1030.

College of Arts & Sciences | Jewish Studies

MCDB-1030 (3) Plagues, People, and Microorganisms

Discusses the biology, history, ecology, and social impact of human plagues, including Aids, smallpox, polio, bubonic plague, tuberculosis, leprosy, the impact of the Irish potato blight, and emerging human pathogens. The biology of pathogens and the human immune responses are treated in detail. Discusses the impact of molecular biology on curtailing the impact of diseases. For nonmajors. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

CHEM-1031 (4) Environmental Chemistry 2

Lect. and lab. Applications of chemical principles to current environmental issues including acid rain, stratospheric ozone depletion, the Antarctic ozone hole, solar energy conversion and fuel cells, and the environmental consequences of nuclear war. Laboratory experience is included. No credit given to chemistry or biochemistry majors for 1031 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., CHEM 1011 with a grade of C- or higher. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Chemistry

ANTH-1040 (3) Principles of Anthropology 2

Surveys the world's major culture areas. Covers components of culture, such as subsistence, social organization, religion, and language. This course is taught through Continuing Education. Meets MAPS requirement for social science: general.

College of Arts & Sciences | Anthropology

ASTR-1040 (4) Accelerated Introductory Astronomy 2

Covers principles of modern astronomy summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observing sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Includes a recitation. Prereq., ASTR 1030. Prereq. or

coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1020, 1040, 1200, or 1120. Similar to ASTR 1020 and 1200 but taught at a higher intellectual level including a significant amount of quantitative analysis. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

EBIO-1040 (3) Biology: A Human Approach 2

Lect. Continues EBIO 1030, focusing on the function of the human body, and maintenance of dynamic equilibrium in the internal environment in the face of a continually changing external environment. Discusses factors influencing these homeostatic conditions and how and why they change. Recommended for nonscience majors. Prereq., EBIO 1030. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Ecology & Evolutionary Biology

GEOL-1040 (3) Geology of Colorado

Reviews the geologic evolution and history of Colorado. It first develops the basic concepts needed to interpret the geology, and then systematically shows how the state evolved through geologic time. The course is designed for those who enjoy understanding the beauty and splendor of the state. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1020. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geological Sciences

HEBR-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

JWST-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

College of Arts & Sciences | Jewish Studies

MCDB-1041 (3) Fundamentals of Human Genetics

Covers the basic principles of genetics, human pedigree analysis, and how genetic diseases affect DNA, RNA, and proteins. Considers implications of this research for medicine and society. For nonmajors. Recommended prereq., good background in high school chemistry and biology. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

ATOC-1050 (3) Weather and the Atmosphere

Introduces principles of modern meteorology for nonscience majors, with emphasis on scientific and human issues associated with severe weather events. Includes description, methods of prediction, and impacts of blizzards, hurricanes, thunderstorms, tornadoes, lightning, floods, and firestorms. Approved for GT-SC1. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

EBIO-1050 (1) Biology: A Human Approach Laboratory

One two-hour lab per week. Provides experiments and exercises relating to concepts presented in EBIO 1030 and 1040. Biology: a Human Approach 1 and 2. This course uses animals and/or animal tissues. Recommended for nonscience majors. When taken with EBIO 1030, meets MAPS requirement for natural science: lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Ecology & Evolutionary Biology

FREN-1050 (5) Beginning French Review

Covers the material of FREN 1010 and 1020 in one accelerated semester. Intended for students who know some French (i.e., four to five semesters in high school) but do not have skills adequate for 2000-level courses. Credit not granted for this course and FREN 1010 or FREN 1020.

College of Arts & Sciences | French & Italian | French

RUSS-1050 (5) Intensive Beginning Russian

Covers same material as RUSS 1010 and RUSS 1020 combined in one course. Focuses on acquiring basic grammar (all cases for nouns, adjectives and possessives, verb conjugations, in all three tenses), and ability to understand and speak basic everyday Russian. Develops basic reading and writing skills and provides exposure to the fundamentals of the Russian culture. Credit not granted for this course and RUSS 1010 or 1020.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

CHIN-1051 (3) Masterpieces of Chinese Literature in Translation

Surveys Chinese thought and culture through close reading and discussion of selected masterworks of Chinese literature in translation. Texts include significant works of poetry, fiction, and drama, as well as philosophical and historical writings from various eras. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CLAS-1051 (3) The World of the Ancient Greeks

Presents a survey of the emergence, the major accomplishments, the failures, and the decline of the ancient Greeks, from the Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.). No Greek or Latin required. Same as HIST 1051. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Classics](#) | [Ancient History](#)

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HIST-1051 (3) The World of the Ancient Greeks

Surveys the emergence, major accomplishments, failures, and decline of the world of the ancient Greeks, from Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.) Same as CLAS 1051. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[Europe: Ancient and Medieval](#)

JPNS-1051 (3) Masterpieces of Japanese Literature in Translation

Surveys Japanese thought and culture through careful reading and discussion of selected masterworks of Japanese literature in translation. Texts include significant works of poetry, fiction, drama, diaries, and essays, from ancient times to the present. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Japanese Courses in English](#)

ATOC-1060 (3) Our Changing Environment: El Nino, Ozone, and Climate

Discusses the Earth's climate for nonscience majors, focusing on the role of the atmosphere, oceans, and land surface. Describes the water cycle, atmospheric circulations, and ocean currents, and how they influence global climate, El Nino, and the ozone hole. Discusses human impacts from climate change. Prereq., ATOC 1050. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Atmospheric & Oceanic Sciences](#)

GEOL-1060 (3) Global Change---An Earth Science Perspective

Focuses on evidence for planetary warming, climate change, glacier and ice-sheet melting, and sea level rise both now and in the recent past. Attempts to develop understanding of the interactions within the coupled Earth system that regulate such changes. Utilizes examples from the geological and instrumental records, and evaluates the global warming forecast. Prereq., GEOL 1010. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

CHIN-1061 (3) Boudoirs, Books, Battlefields: Voices and Images of Chinese Women

Explores narrative and visual representations of women throughout Chinese history. Emphasizes how modern values of freedom and equality have transformed women's lives and shaped their aspirations. Course materials include memoirs, novels, ethnographies, documentaries, and feature films. No knowledge of Chinese is necessary. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CLAS-1061 (3) The Rise and Fall of Ancient Rome

Presents a survey of the rise of ancient Rome in the eighth century B.C. to its fall in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. No Greek or Latin required. Same as HIST 1061. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Classics Ancient History

HIST-1061 (3) The Rise and Fall of Ancient Rome

Surveys the rise of ancient Rome in the eighth century B.C. to its "Fall" in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. Same as CLAS 1061. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences History Europe: Ancient and Medieval

ATOC-1070 (1) Weather and the Atmosphere Laboratory

Optional laboratory for ATOC 1050. Laboratory experiments illustrate fundamentals of meteorology. Covers collection, analysis, and discussion of data related to local weather. Uses computers for retrieval and interpretation of weather data from Colorado and across the U.S. Prereq. or coreq., ATOC 1050 or instructor consent. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

MATH-1071 (3) Finite Mathematics for Social Science and Business

Discusses systems of linear equations and introduces matrices, linear programming, and probability. Prereq., MATH 1011 or 1 1/2 years of high school algebra. Credit not granted for this course and MATH 1050, 1060 and 1070. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

ECON-1078 (3) Mathematical Tools for Economists 1

Teaches mathematical skills and logical thinking for use in economics. Topics include algebra, graphs, functions, and probability. The class includes many "Real world" examples and some illustrative computer assignments. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Economics Quantitative Economics

ARSC-1080 (4) College Writing and Research

Introduces academic and professional genres through the research and inquiry process. Students practice close reading, oral presentation, drafting, synthesis, analysis and research skills in discussion, writing workshops, and one-on-one conferences. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Arts & Sciences Admin Writing

ARSC-1081 (1) SASC Coseminar: College Writing and Research

One-credit seminar provides extended instruction in written composition for students enrolled in ARSC 1080. Graded assignments enrich students' understanding of genre, organization, research skills, and grammar. Coreq., ARSC 1080.

College of Arts & Sciences Arts & Sciences Admin Writing

MATH-1081 (3) Calculus for Social Science and Business

Covers differential and integral calculus of algebraic, logarithmic, and exponential functions. Prereq., MATH 1011, 1071, 1010, or 1070 or placement exam score for MATH 1020 or two years high school algebra. Credit not granted for this course and MATH 1080, 1090, 1100, 1300, 1310, APPM 1350, and ECON 1088. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

ECON-1088 (3) Mathematical Tools for Economists 2

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. These skills are used on "real world" problems, and illustrated with computer assignments. Prereq., ECON 1078 or instructor consent. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, and APPM 1350.

College of Arts & Sciences | Economics | Quantitative Economics

DNCE-1091 (1) Modern 1

Introduces basic skills of modern dance. In-class technique work increases muscle strength, flexibility, and coordination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Major Technique

ANTH-1100 (3) Exploring a Non-Western Culture: The Tamils

Surveys the social and economic patterns, ideas and values, and aesthetic achievements of the Tamils, a Hindu people who live in South India and Sri Lanka. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

CLAS-1100 (3) Greek Mythology

Covers the Greek myths as documents of early human religious experience and imagination, the source of Greek culture, and part of the fabric of Western cultural tradition. Of particular interest to students of literature and the arts, psychology, anthropology, and history. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

COMR-1100 (1) RAP Community Leadership Practicum

Examines relationships between competent communication and effective leadership in the context of the Communication and Society RAP. Upon completion of the Community Leadership RAP practicum, the student will be able to identify, discuss, demonstrate, and critique effective communication skills as they apply to many different leadership opportunities within the RAP. Restricted to students in the Communication Residential Academic Program.

College of Arts & Sciences | Communication Residential Academic Program

DNCE-1100 (1) Beginning Ballet

Ballet for beginners; no previous experience required. Stretching, basic barre, simple terre a terre, and jumping steps are learned, as well as alignment and basic extended positions such as arabesque and attitude. Mastery of simple enchainements and rhythmic patterns. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

PHIL-1100 (3) Ethics

Introductory study of major philosophies on the nature of the good for humanity, principles of evaluation, and moral choice as they apply to contemporary moral problems. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

WRTG-1100 (4) Extended First-Year Writing and Rhetoric

Extended version of WRTG 1150 that carries an additional hour of credit and is intended for students desiring more preparation and practice in college writing. Meets the same goals as WRTG 1150. Features one extra hour of small group work out of class. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 8 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Program for Writing & Rhetoric

PSCI-1101 (3) The American Political System

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Approved for GT-SS1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: contemporary societies or United States context.

College of Arts & Sciences | Political Science | American

ANTH-1105 (3) Exploring a Non-Western Culture: Tibet

Introduction to Tibetan culture, history, religion, and society from an anthropological perspective, including traditional as well as contemporary dimensions. Topics will include Tibetan Buddhism, politics, nomadism, gender, refugee issues, and the global Tibetan diaspora, all framed within the larger methods and concepts of cultural anthropology. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

THTR-1105 (3) Stage Technologies

Introduces technical production elements and procedures, including materials, organizations, methods and equipment to realize theatrical scenery, properties, lighting and sound. Credit not granted for this course and THTR 1065 or 1075.

College of Arts & Sciences | Theater & Dance | Theatre Design and Technology

CLAS-1110 (3) Muses and Man-eaters (1): The Literature of Ancient Greece

Surveys Greek authors whose works have most influenced Western thought: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, and Plato. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Classics](#) | [Literature, Culture, & Thought](#)

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MATH-1110 (3) The Spirit and Uses of Mathematics 1

For prospective elementary teachers. Includes a study of problem-solving techniques in mathematics, the uses and role of mathematics in our society, and the structure of our familiar number systems. Additional topics are chosen from number theory, ancient numeration systems, computer sciences, modern geometry and algebra and elementary logic. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

PHYS-1110 (4) General Physics 1

Three lect., one rec. per week, plus three evening exams in the semester. First semester of three-semester sequence for science and engineering students. Covers kinematics, dynamics, momentum of particles and rigid bodies, work and energy, gravitation, simple harmonic motion, and introduction to thermodynamics. Coreq., APPM 1350 or MATH 1300. Credit not granted for this course and PHYS 1170. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Physics](#)

CHEM-1113 (4) General Chemistry 1

Lect., rec. Intended for first-semester students whose academic plans require advanced work in chemistry. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1114. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEM 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

[College of Arts & Sciences](#) | [Chemistry](#)

HIST-1113 (3) Introduction to British History to 1660

Deals with Roman, medieval, and early modern periods. Covers the demographic, economic, and social patterns, political and religious developments, and cultural changes that contributed to the formation of the English nation. Formerly HIST 2103. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Specific Countries

CHEM-1114 (1) Laboratory in General Chemistry 1

Lab. Intended for first-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1113. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1113. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEM 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

College of Arts & Sciences | Chemistry

ANTH-1115 (3) The Caribbean in Post-Colonial Perspective

Introduces the student to the varied peoples and cultures in the Caribbean region, emphasizing the historical, colonial, and contemporary political-economic contexts of their social structure and cultural patterns. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

CLAS-1115 (3) Masterpieces of Greek Literature in Translation

Students read about mythological heroes and historical individuals from Achilles to Socrates in Greek literature. Class discusses why the Greeks told stories the way they did and what those stories might have meant to them and might mean to us. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Honors

THTR-1115 (3) Costume Technologies

Introduces technical production elements and procedures including materials, organizations, methods and equipment to realize theatrical costuming and make-up. Credit not granted for this course and THTR 1065 or 1075. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Arts & Sciences | Theater & Dance | Theatre Design and Technology

ANTH-1120 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ETHN 1123. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

CLAS-1120 (3) Muses and Man-Eaters (2): The Literature of Ancient Rome

Surveys ideas and culture of the Romans through a study of representative literature: comedy, tragedy, history, philosophy, oratory, the novel, lyric, epic, and didactic poetry. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

DNCE-1120 (1) Beginning Ballet with Experience

Extension of beginning ballet, when basic concepts of ballet have been mastered. Enchainements are of greater complication and variety. Dance vocabulary is more extensive. Pirouettes and more complex musical phrases are expected. May be repeated up to 2 total credit hours. Prereq., DNCE 1100.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

MATH-1120 (3) The Spirit and Uses of Mathematics 2

Continuation of MATH 1110. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Mathematics

PHYS-1120 (4) General Physics 2

Three lect., one rec. per week, plus three evening exams in the semester. Second semester of three-semester introductory sequence for science and engineering students. Covers electricity and magnetism, wave motion, and optics. Normally is taken concurrently with PHYS 1140. Prereq., PHYS 1110 (min grade C-). Coreq., MATH 2300 or APPM 1360. Credit not granted for this course and PHYS 1180. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

ETHN-1123 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ANTH 1120. Formerly AIST 1125. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

College of Arts & Sciences | Ethnic Studies | American Indian Studies

HIST-1123 (3) Introduction to British History Since 1660

Deals with the period from the 17th century to the present. Political, economic, social, and imperial developments that contributed to creation of the modern industrial and democratic state are the major issues covered. Formerly HIST 2123. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Specific Countries

ESLG-1130 (2) Accent Reduction for Foreign Students

Provides oral activities with authentic English materials to reduce accents and to increase intelligibility for U.S. academic situations. Evaluates individual problem areas and includes one-on-one meetings with the native-speaker instructor. Improves overall articulation and fluency. Does not fulfill humanities or major requirements.

College of Arts & Sciences | Linguistics

MATH-1130 (3) Mathematics from the Visual Arts

Introduces mathematical concepts through the study of visual arts. Credit not granted for this course and QRMS 1130. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Mathematics

CHEM-1133 (4) General Chemistry 2

Lect., rec. Intended for second-semester students whose academic plans require advanced work in chemistry. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1134. Credit not granted for this course and CHEM 1131, 1271 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

College of Arts & Sciences | Chemistry

CHEM-1134 (1) Laboratory in General Chemistry 2

Lab. Intended for second-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1133. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1133. Credit not granted for this course and CHEM 1131, 1271, or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

College of Arts & Sciences | Chemistry

ANTH-1135 (3) Exploring a Non-Western Culture: TBA

Examines the geography, kinship, politics and religious values of a particular non-Western people in historical and contemporary context through an anthropological perspective. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1140 (3) Exploring a Non-Western Culture: The Maya

Explores the culture of the Maya of Central America, emphasizing their material adaptations, social organizations, ideals and values, and artistic achievements in the past and the present. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

CLAS-1140 (3) Bread and Circuses: Society and Culture in the Roman World

Surveys the outstanding achievements of Roman culture and society as reflected in literature; philosophy and art; private and official religion; and legal and political thought. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

ESLG-1140 (2) Presentation Skills for International Students

Provides instruction and practice to improve classroom oral communication skills necessary for effective participation in the U.S. academic setting, either as an international TA or RA, graduate or undergraduate student. Evaluates individual problem areas and includes digital audio and video recording with extensive feedback from the native-speaker instructor. Improves oral competence and listening comprehension in English for international students. Recommended prereq., ESLG 1130.

College of Arts & Sciences | Linguistics

PHYS-1140 (1) Experimental Physics 1

Introduction to experimental physics through laboratory observations of a wide range of phenomena. Course covers experiments on physical measurements, linear and rotational mechanics, harmonic motion, wave motion, sound and heat, electricity and magnetism, optics, and electromagnetic waves with the mathematical analysis of physical errors associated with the experimental process. One lect., one 2-hour lab per week. Prereq., PHYS 1110; prereq. coreq., PHYS 1120. Approved for GT-SC1. Approved for arts and science core curriculum: natural science.

College of Arts & Sciences | Physics

ANTH-1145 (3) Exploring a Non-Western Culture: The Aztecs

Explores the culture of the Aztec people of Central Mexico: their subsistence, society, religion, and achievements, as well as the impact of the Aztec empire in Mesoamerica. Also reviews the

clash of a non-western society with the western world with the arrival of the Spanish conquistadors. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

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[ANTH-1150 \(3\) Exploring a Non-Western Culture: Regional Cultures of Africa](#)

Explores a small number of cultures in a specific sub-region of Africa from an integrated holistic viewpoint, emphasizing material adaptations, social patterns, ideas and values, and aesthetic achievements. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

[ARSC-1150 \(3\) Writing in Arts and Sciences](#)

Emphasizes the development of effective writing skills with instruction provided in expository and analytical writing. Reviews basic elements of grammar, syntax, and composition as needed. May be repeated up to 6 total credit hours. Approved for GT-CO2. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) | [Arts & Sciences Admin](#) | [Writing](#)

[MATH-1150 \(4\) Precalculus Mathematics](#)

Develops techniques and concepts prerequisite to calculus through the study of trigonometric, exponential, logarithmic, polynomial, and other functions. Prereq., one and a half years of high school algebra. Students having credit for college algebra and trigonometry may not receive additional credit for MATH 1150. Students with credit for college algebra receive only 2 additional hours of credit for MATH 1150. Similar to MATH 1000, 1010, 1020, 1011, 1021, 1030, and 1040. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

MCDB-1150 (3) Introduction to Cellular and Molecular Biology

Covers biologically important macromolecules and biological processes, together with an introduction to cell structure, function, and physiology. Provides the foundation for advanced MCDB courses to majors, and a rigorous overview of modern biology to nonmajors. MCDB 1151 must be taken concurrently by MCDB and biochemistry majors and prehealth science students. Prereq., high school chemistry and algebra. Coreq., MCDB 1151 for majors. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and science core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

PHYS-1150 (1) Experimental Physics 2

For students in Physics Plan 3 teaching track only. Students complete another full set of PHYS 1140 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1110 and 1120. Same as PHYS 1140.

College of Arts & Sciences | Physics

SPAN-1150 (5) Intensive First Year Spanish

An intensive beginning course covering the same material as Span 1010 and 1020. Attendance at the language laboratory may be mandatory. Similar to Span 1010 and 1020.

College of Arts & Sciences | Spanish | Spanish

WRTG-1150 (3) First-Year Writing and Rhetoric

Rhetorically informed introduction to college writing. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-CO1 and GT-CO2. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Program for Writing & Rhetoric

MCDB-1151 (1) Introduction to Cell and Molecular Biology Lab

Offers one two-hour lab per week designed to acquaint students with research techniques and concepts in molecular and cellular biology. Topics include cell structure, function, physiology, and recombinant DNA. MCDB 1150 must be taken concurrently. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-1152 (1) Problem Solving Co-Seminar for Introduction to Molecular and Cellular Biology

Uses problem solving and other interactive group work to aid student learning in co-requisite course MCDB 1150. Students will work in small groups on learning and practicing how to solve difficult conceptual problems, as well as using hands-on activities and concept mapping to help learn content. Coreq., MCDB 1150.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

ANTH-1160 (3) The Ancient Egyptian Civilization

Emphasizes the origin of the Egyptian culture, its importance, and its impact on other cultures. In addition, the different points of view of various scholars are discussed with a comparative study of the ancient Egyptian culture and modern culture of Egypt and the Middle East. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

MCDB-1161 (2) From Dirt to DNA: Phage Genomics Laboratory I

Provides laboratory experience working on a bacteriophage genomics research project. Students will study novel bacteriophage they isolate from the environment. Topics covered include phage biology, bacteria and phage culturing and amplification, DNA isolation, restriction digest analysis, agarose gel electrophoresis, and electron microscopy. Coreq., MCDB 1150 or successful completion of 2 semesters of General Biology AP credit.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

ANTH-1170 (3) Exploring Culture and Gender through Film

Uses films and written texts to explore the concepts of culture and gender, as well as ethnicity and race. By looking at gender, ethnicity, and race cross-culturally, students will know how these concepts are constructed in their own society, as well as in others. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ARTS-1171 (3) Photography for Non-Majors

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Credit not granted for this course and ARTS 2171.

College of Arts & Sciences | Art & Art History | Photography

ANTH-1180 (3) Maritime People: Fishers and Seafarers

Explores important milestones in the development of human societies and cultures that live from the sea. Emphasizes the evolution of maritime adaptations associated with fishing and seafaring from more than 10,000 years ago through the present. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Anthropology

ANTH-1190 (3) Origins of Ancient Civilizations

Examines origins of the world's first civilizations in Mesopotamia, Egypt, the Indus Valley, Mesoamerica, and the Andes. Covers archaeology of ancient cities, trade, economy, politics, warfare, religion, and ideology. Seeks insights into general processes of cultural evolution. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Anthropology

DNCE-1190 (1) Ballet 1

Beginning ballet covering the basic vocabulary of classical ballet technique. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

ENGL-1191 (3) Introduction to Creative Writing

Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and may be discussed in a workshop atmosphere with other students. May not be taken concurrently with ENGL 2021 or 2051. May not be repeated. Not open to graduate students.

College of Arts & Sciences | English | Undergraduate Writing

ANTH-1200 (3) Culture and Power

Compares contemporary sociopolitical systems across cultures, from non-Western tribal groups to modern states. Introduces students to anthropological approaches for understanding and analyzing political forces, processes, and institutions that affect cultures such as colonialism, warfare, violence, ethnicity, migration, and globalization. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Anthropology

ARSC-1200 (1-3) Topics in Arts and Sciences

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ASTR-1200 (3) Stars and Galaxies

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, neutron stars, black holes, interstellar gas, galaxies, quasars, and the structure and origins of the universe. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory. Formerly ASTR 1120. Similar to ASTR 1020, without

sequence link to ASTR 1010 or recitation. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1200, 1120, 1020, or 1040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Astrophysical & Planetary Sciences

DNCE-1200 (1) Beginning Jazz Dance

Introduces various styles of movement unique to jazz dance. Students learn fundamental technical dance skills as well as specific jazz vocabulary. Designed for students with little or no dance experience. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

FREN-1200 (3) Medieval Epic and Romance

Covers the most important works of medieval literature, in English translation. Among the texts studied are the Nibelungenlied, the Song of Roland, and Arthurian romances, including the stories of Lancelot and Guinevere and Tristan and Isolde. Offers a general introduction for nonmajors to medieval literature and society. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | French & Italian | French

PHIL-1200 (3) Philosophy and Society

Introduces philosophical thought through critical analysis of our own society, its institutions, and principles. Approved for GT-AH3. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or ideals and values.

College of Arts & Sciences | Philosophy

ARTS-1202 (3) Beginning Painting 1

The aim of this course is to develop the basic skills, techniques and processes of painting with an understanding of basic colour principles. This integration of paint application and colour principle will develop awareness that painting and colour are used, not only as mediums for representation, but also as mediums for expressive purposes. Demonstrations, lectures, group and individual critiques will be given throughout the course. Prereqs., ARTS 1010, 1020, and 1030.

College of Arts & Sciences | Art & Art History | Painting/Drawing

SCAN-1202 (3) Tolkien's Nordic Sources and the Lord of the Rings

Examines the Nordic aspect of J.R.R. Tolkien's work, especially The Lord of the Rings. The course concentrates on the Nordic saga tradition, mythology, folklore and fairy tales Tolkien used as his sources. Students will explore the transformations of these sources from prehistoric times to contemporary cinematic adaptations, while paying special attention to cultural appropriations, national revisions, and political alterations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

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CLAS-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#)
[Classics](#)
[Classical Philology](#)

PSCI-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-8993 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#)
[Political Science](#)
[International Relations](#)

PSCI-8994 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Political Science | Political Theory

PSCI-8995 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-8996 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Political Science | Public Policy

ECON-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Economic (ECON) graduate students are restricted from taking this course.

College of Arts & Sciences | Economics | Independent Study and Other

ENGL-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | English | Graduate Courses

THTR-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Theater & Dance | Special Courses in Theatre

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ASEN-1000 (1) Introduction to Aerospace Engineering Sciences

Introduces aerospace history, curriculum, ethics, and the many areas of emphasis within aerospace engineering. Academic and industry speakers are invited to address various aerospace topics. Prerequisites: Restricted to students with 0-26 credits (Freshmen) Aerospace Engineering (ASEN) or Engineering Open Option majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Aerospace Design & System Engr](#)

ASEN-1400 (3) Gateway to Space

Introduces the basics of atmosphere and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Formerly ASEN 2500. Same as ASTR 2500. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Aerospace Design & System Engr](#)

ASEN-2001 (4) Aerospace 1: Introduction to Statics, Structures, and Materials

Introduces models and analytical/numerical methods for statics and structural analysis. Topics include force/moment equilibrium, truss analysis, beam theory, stress/strain, failure criteria, and structural design. Matlab proficiency required. Prereqs., APPM 1360, GEEN 1300 or CSCI 1300 or ECEN 1030 and PHYS 1110 (min. grade C). Coreq., ASEN 2002, 2012 or APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Structures, Mat. & Struc Dynam](#)

ASEN-2002 (4) Aerospace 2: Introduction to Thermodynamics and Aerodynamics

Introduces the fundamental principals and concepts of thermodynamics and fluid dynamic systems. Emphasizes the synthesis of basic science (physics), mathematics, and experimental methods that form the basis for quantitative and qualitative analyses of general aerospace technology systems. Proficiency in Matlab required. Prereqs., APPM 1360, GEEN 1300, CSCI 1300, or ECEN 1030 and PHYS 1110 (min. grade C). Coreqs., ASEN 2001, 2012 and APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-2003 (5) Aerospace 3: Introduction to Dynamics and Systems

Introduces the principles of particle and planar rigid body dynamics, systems, and controls. Topics include kinematics, kinetics, momentum and energy methods, system modeling, and simple feedback control. Class includes experimental and design laboratory exercises for aerospace applications of dynamic principles. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, ASEN 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2004. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

ASEN-2004 (5) Aerospace 4: Aerospace Vehicle Design and Performance

Introduction to design and analysis of aircraft and spacecraft. Aircraft topics include cruise performance, wing design, propulsion, stability, control, and structures. Spacecraft topics include rocket staging, orbit selection, launch systems, and spacecraft subsystems. Includes laboratory experiments and team design exercises. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, 2002, 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2003. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-2012 (2) Experimental and Computational Methods in Aerospace Engineering Sciences

Introduces statistical, experimental, and computational methods used in aerospace engineering sciences. Usage of MatLab is extensive. Coreq., ASEN 2001 and 2002. Prereq., GEEN 1300 or CSCI 1300 or ECEN 1030 (min. grade C). Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-2519 (1-6) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the lower-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Restricted to Engineering students.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-2849 (1-3) Independent Study

Study of special projects agreed upon by student and instructor. May be repeated up to 9 total credit hours. Prereq., instructor consent.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-3036 (3) Introduction to Human Spaceflight

Introduces students to the challenges of human space flight. Historical and current space programs and spacecraft are discussed with emphasis on those systems specific to sustaining human crews. Other topics include space environment with respect to sustaining human life and health, physiological and psychological concerns in a space habitat, astronaut selection and training, anomalies, mission operations motivation, costs rationale for human space exploration, and future program directions. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-3046 (3) Introduction to Humans in Aviation

Investigates the history of manned aviation accomplished through a review of the history of flight, the physiological and psychological limitations facing aviators, and investigates the human related causal factors in aviation accidents. The course also looks at the social and economic impacts of aviation in modern society. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-3111 (4) Aerodynamics

Develops the fundamental concepts of aerodynamics and provides a working knowledge for their application to the design of aircraft and launch vehicles operating at various speeds and altitudes, as well as the atmospheric forces on satellites. Prereqs., APPM 2350, ASEN 2002 and 2004 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-3112 (4) Structures

Teaches Mechanics of Materials methods of stress and deformation analysis applicable to the design and verification of aircraft and space structures. It offers an introduction to matrix and finite element methods for truss structures, and to mechanical vibrations. Prereq., ASEN 2001, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-3113 (4) Thermodynamics and Heat Transfer

Focuses on the applications of the first and second laws of thermodynamics to control volumes and teaches the fundamental concepts of different modes of energy and heat transfer. Learn to use these concepts in gas dynamics, high-speed vehicle spacecraft design, environmental systems, and energy analysis. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN 2002 and APPM 2350 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ASEN-3116 (3) Introduction to Biomedical Engineering

Addresses human responses to environment and physical stimuli. Makes use of engineering and physical principles in the study of human dynamics, arriving at reasonable solutions to 15 major areas of biomedical consent. Prereq., instructor consent.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-3128 (4) Aircraft Dynamics

Develops the fundamental concepts of aircraft dynamics. Covers flight mechanics, performance, dynamics and control of aircraft, and how they impact aircraft design. Prereqs., ASEN 2002, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2002, 2003, 2004 & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-3200 (4) Orbital Mechanics/Attitude Dynamics and Control

Presents the fundamentals of orbital mechanics, 3D rigid body dynamics, and satellite attitude dynamics and controls. Prereqs., ASEN 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, ASEN 2004, & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-3300 (4) Aerospace Electronics and Communications

Provides the fundamentals of electronics and communications widely used in aerospace engineering. Includes analog instrumentation electronics, data acquisition, digital electronics, and radio communication. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, PHYS 1120 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

ASEN-3519 (1-4) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-3930 (6) Aerospace Engineering Cooperative Education

Students will participate in a previously arranged, department-sponsored cooperative education program with a government agency or industry. Recommended GPA above 3.0. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Aerospace Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-4010 (3) Introduction to Space Dynamics

Includes central force fields, satellite orbits, rocket dynamics, orbital transfer, interplanetary mission analysis, and perturbation due to atmospheric drag and Earth oblateness. Prereq., ASEN 3200 or equivalent, or instructor consent required. Prerequisites: Requires pre-requisite course of ASEN 3200. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-4012 (3) Aerospace Materials

Studies aerospace grade aluminum, magnesium, nickel, and titanium alloys. Covers heat treatment, defect structures, failure mechanisms, corrosion and its prevention, the effect of space radiation on materials, and high and low temperature effects. Introduces composite materials with a lab design and experiment. Emphasizes the selection of materials in design with procedures for choosing materials rationally. Case studies include aerogels, carbides, composites, powder metallurgy, nanomaterials, and advanced materials manufacturing technologies. Prerequisites: Requires pre-requisite course of ASEN 2001 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat. & Struc Dynam

ASEN-4013 (3) Foundations of Propulsion

Describes aerothermodynamics and design of both rocket and air-breathing engines. Includes ramjets, turbojets, turbofans, and turboprop engines, as well as liquid, solid, and hybrid rockets. Prerequisites: Requires pre-requisite courses of ASEN 3113 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ASEN-4018 (4) Senior Projects 1: Design Synthesis

Focuses on the synthesis of technical knowledge, project management, design process, leadership, and communications within a team environment. Students progress through the design process beginning with requirements development, then preliminary design and culminating with critical design. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN, 3111, 3112, 3113, 3128, 3200, and 3300 (all min grade C). Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4028 (4) Senior Projects 2: Design Practicum

Focuses on the fabrication, integration, verification and validation of designs produced in ASEN 4018. Students work within the same teams from ASEN 4018. Instructor consent required. Offered spring only. Prerequisites: Requires pre-requisite course of ASEN 4018 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

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ASEN-1000 (1) Introduction to Aerospace Engineering Sciences

Introduces aerospace history, curriculum, ethics, and the many areas of emphasis within aerospace engineering. Academic and industry speakers are invited to address various aerospace topics. Prerequisites: Restricted to students with 0-26 credits (Freshmen) Aerospace Engineering (ASEN) or Engineering Open Option majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Aerospace Design & System Engr](#)

ASEN-1400 (3) Gateway to Space

Introduces the basics of atmosphere and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Formerly ASEN 2500. Same as ASTR 2500. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Aerospace Design & System Engr](#)

ASEN-2004 (5) Aerospace 4: Aerospace Vehicle Design and Performance

Introduction to design and analysis of aircraft and spacecraft. Aircraft topics include cruise performance, wing design, propulsion, stability, control, and structures. Spacecraft topics include rocket staging, orbit selection, launch systems, and spacecraft subsystems. Includes laboratory experiments and team design exercises. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, 2002, 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2003. Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Aerospace Design & System Engr](#)

ASEN-2012 (2) Experimental and Computational Methods in Aerospace Engineering Sciences

Introduces statistical, experimental, and computational methods used in aerospace engineering sciences. Usage of MatLab is extensive. Coreq., ASEN 2001 and 2002. Prereq., GEEN 1300 or CSCI 1300 or ECEN 1030 (min. grade C). Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-3128 (4) Aircraft Dynamics

Develops the fundamental concepts of aircraft dynamics. Covers flight mechanics, performance, dynamics and control of aircraft, and how they impact aircraft design. Prereqs., ASEN 2002, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2002, 2003, 2004 & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4018 (4) Senior Projects 1: Design Synthesis

Focuses on the synthesis of technical knowledge, project management, design process, leadership, and communications within a team environment. Students progress through the design process beginning with requirements development, then preliminary design and culminating with critical design. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN, 3111, 3112, 3113, 3128, 3200, and 3300 (all min grade C). Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-4028 (4) Senior Projects 2: Design Practicum

Focuses on the fabrication, integration, verification and validation of designs produced in ASEN 4018. Students work within the same teams from ASEN 4018. Instructor consent required. Offered spring only. Prerequisites: Requires pre-requisite course of ASEN 4018 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-4128 (3) Human Factors in Engineering and Design

Introduces the field of human factors engineering and investigates human psychological, physiological and performance limitations in complex systems and why it is vital for engineers to understand human operational limitations when designing complex systems. Course includes studies of real accidents caused by human error, good and bad designs, latent conditions and accident-producing designs. Goal is an understanding of how to conduct engineering design with consideration of human factors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-4138 (3) Aircraft Design

Two lectures and one lab per week. Examines principles of aircraft configuration and design to meet given performance specifications, taking into account aerodynamic, stability and control, and flying quality considerations, as well as airworthiness regulations. Includes preliminary design of the major elements of an aircraft. Prereq., ASEN 3128. Restricted to ASEN majors. Prerequisites: Requires pre-requisite course of ASEN 3128. Restricted to Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-4218 (3) Large Space Structures Design

Develops the necessary structural analysis skills for conducting conceptual and preliminary designs of large space structures with a practical emphasis on structures considered by NASA over the past 20 years. Applies analysis skills to a broad range of space missions requiring large space structures, emphasizing low cost and practical design. Prereq., senior standing in ASEN or MCEN, or instructor consent. Same as ASEN 5218.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4238 (3) Computer-Aided Control Systems Design

Covers Matlab and Simulink software, and multivariable control system synthesis and analysis techniques for typical aerospace control problems. Students formulate control problems and synthesize control functions using lineage quadratic techniques. Includes numerical integration of differential equations and nonlinear simulation of orbit and attitude dynamics. Prereq., APPM 2360.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4248 (3) Computer-Aided Control System Design 2

Studies theory and engineering applications of Kalman filter techniques. Covers discrete and continuous filters, the extended Kalman filter, and their application to guidance, navigation, and control, including satellite orbit and attitude problems, inertial and control navigation, and the Global Positioning System. Prerequisites: Requires pre-requisite course of ASEN 4238.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5018 (3) Graduate Projects I

Exposes MS and PhD students to project management and systems engineering disciplines while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this first semester of the two-semester course sequence: requirements, definition, design and design review, build, test, and verification. Recommended prereqs., ASEN 4138, or 5148, or 5158.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5034 (3) Stochastic Methods for Systems Engineering

Same as ASEN 4034. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5148 (3) Spacecraft Design

Integrates the design elements and fundamental analyses necessary to complete the conceptual (Phase A) design of an unmanned spacecraft. Lecture and discussion explore mission design, propulsion, power, structure, thermal, attitude control, communication, command, and data handling and attitude control systems. The role of project management and systems engineering are examined. Resource estimating and lessons learned in satellite programs are reviewed. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5158 (3) Space Habitat Design

Utilizes systems engineering methods for designing a spacecraft intended for human occupancy and provides a working knowledge of the technologies used to sustain life. Emphasis is placed on deriving functional requirements from stated mission objectives, developing integrated vehicle schematics, and comparing design options by trade study. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5168 (3) Remote Sensing Instrumentation Design

Reviews and makes a detailed analysis of satellite instrumentation techniques and systems to understand the components, limitations, and overall capabilities. Emphasis on optical systems with in-depth treatment of conventional radiometry. Introduces both passive and microwave methods. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5188 (3) Space Systems Engineering

Develop an understanding and appreciation for the fundamentals and pragmatic principles of systems engineering and their application to space missions. This course establishes a working knowledge of the primary techniques systems engineers use to guide the development of complex systems, including: requirements development, system synthesis, good design practices, system optimization, exception handling, interface management and trade studies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5218 (3) Large Space Structures Design

Same as ASEN 4218. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-6028 (3) Graduate Projects II

Exposes MS and PhD students to leadership positions in project management and systems engineering while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this second semester of the two-semester course sequence: requirements definition, design and design review, build, test, and verification. Prereq., ASEN 5018. Recommended prereq., ASEN 4138, or 5148, or 5158. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

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CHEN-1000 (3) Creative Technology

Lect. Introduces undergraduate arts and sciences students to the most recent concepts in technology and how these concepts impact all aspects of life, such as health, the health of the planet, and social structures. Engineering students should consult an advisor before registering for this course. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to non-Engineering majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-1211 (3) General Chemistry for Engineers

Lect. a one-semester course designed to meet the general chemistry requirement for engineering students. Topics include stoichiometry; thermodynamics; gases, liquids, and solids; equilibrium; acids and bases; bonding concepts; kinetics; reactions; and materials science. Examples and problems illustrate the application of chemistry to engineering subdisciplines. Restricted to students with one year of high school chemistry or CHEM 1001 or 1021 (min. grade C-); and high school algebra. Not recommended for students with grades below B- in CHEM 1001 or 1021. Credit not granted for this course and CHEM 1111, 1113/1114, 1251, or 1351. Prerequisites: Requires co-requisite course of CHEM 1221. Restricted to College of Engineering Majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-1300 (1) Introduction to Chemical Engineering

Meets for one lecture per week. Introduces chemical engineering emphasizing history of the profession, curriculum, chemical industry, and industrial chemistry. Includes industry visits, oral presentations, faculty and professional meetings, and development of a goals statement. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-2120 (3) Chemical Engineering Material and Energy Balances

Provides a basic understanding of chemical engineering calculations involving material and energy balances around simple chemical processes. Prerequisites: Requires pre-requisite courses of CHEN 1211 and GEEN 1300 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-2810 (3) Biology for Engineers

Develops a basic understanding of the science of biology, including an introduction to the disciplines of biochemistry, cell organization, metabolism, genetics, genomics, molecular biology, recombinant DNA technology and evolution. Provides a basic introduction to several key techniques used in biological engineering laboratories. Uses examples of complex and creative structures engineered by natural processes.

College of Engineering & Applied Science | Chemical Engineering

CHEN-2840 (1-4) Independent Study

Available to sophomores with approval of Department of Chemical Engineering. Subject arranged to fit needs of student.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3010 (3) Applied Data Analysis

Teaches students to analyze and interpret data. Topics include engineering measurements, graphical presentation and numerical treatment of data, statistical inference, and regression analysis. Prerequisites: Requires pre-requisite course of GEEN 1300.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3130 (2) Chemical Engineering Laboratory 1

One four-hour lab session per week. Investigates chemical engineering fluid flow, heat transfer, and thermodynamics. Emphasizes communication by written reports and oral presentations as well as laboratory safety. Prereq., CHEN 3010, 3200, 3320 and either CHEN 3210 or MCEN 3022 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3010 and CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320 and CHEN 3210 (or MCEN 3022).

College of Engineering & Applied Science | Chemical Engineering

CHEN-3200 (3) Chemical Engineering Fluid Mechanics

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to chemical engineering systems. Prereqs., APPM 2350 and either CHEN 2120 (min. grade C) or MCEN 2023 (min. grade C). Coreq., APPM 2360. Same as GEEN 3853.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3210 (3) Chemical Engineering Heat Transfer

Examines conservation and transfer of thermal energy. Focuses on conduction and convection of heat in the context of chemical processes, with a special focus on heat exchangers. Also studies thermal radiation. Prerequisites: Requires pre-requisite courses of either CHEN 3200 or MCEN 3021 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-3220 (3) Chemical Engineering Separations and Mass Transfer

Studies separation methods including distillation, absorption, and extraction, and graphical and computer-based solutions to separation problems. Also studies mass transfer rate processes, including diffusion, microscopic material balances, and correlations for mass transfer coefficients. Applies mass transfer rate theory to packed and tray columns. Prerequisites: Requires pre-requisite courses of CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3320 (3) Chemical Engineering Thermodynamics

Applies thermodynamic principles to nonideal systems, phase equilibrium, chemical equilibrium, power generation, refrigeration, and chemical processes. Prereqs., CHEN 2120 (min. grade C) and either CHEM 4511 or 4521 (min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 2120 and either CHEM 4511 or 4521 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-3840 (1-4) Independent Study

Available to juniors with approval of the Department of Chemical Engineering. Subject arranged to fit needs of the student.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3930 (6) Chemical Engineering Cooperative Education

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program. Prereqs., CHEN 2120 (min. grade C) and GPA higher than 2.85. GPA higher than 3.00 strongly recommended.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4010 (2) Chemical Engineering Senior Thesis 1

Provides an opportunity for advanced students to conduct exploratory research in chemical engineering.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4020 (2) Chemical Engineering Senior Thesis 2

Continuation of CHEN 4010. CHEN 4010 and 4020 can substitute for CHEN 4130.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4090 (1) Senior Seminar

Provides chemical engineering career and professional information, facilitates contact with faculty and industry representatives, and improves communication and leadership skills. Consists of a series of seminars and field trips and requires a research project involving a written and oral report. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4130 (2) Chemical Engineering Laboratory 2

Involves planning and execution of chemical engineering experiments on mass transfer operations, separations, and chemical reactors. Interprets experimental data with theoretical principles and statistical analysis. Emphasizes communication with written memos, full reports, and oral presentations. Prerequisites: Requires pre-requisite courses of CHEN 3130, 3220, 3320, 4330 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4330 (3) Chemical Engineering Reaction Kinetics

Introduces chemical kinetics and chemical reactor design. Involves mass and energy balances for steady-state and transient reactor systems. Also covers residence time distribution, mass transfer, catalytic reactions, and multiple steady states in reactors. Prerequisites: Requires pre-requisite courses of CHEN 3320 and APPM 2360.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4440 (3) Chemical Engineering Materials

Introduces materials engineering, including properties of polymers, metals, ceramics, and semiconductors, especially as related to chemical engineering processes. Prereq., CHEN 3320 and CHEM 3311 (min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4450 (3) Polymer Chemistry

Introduces polymer science with a focus on polymer chemistry and polymerization reactions. Focuses on polymerization reaction engineering and how polymer properties depend on structure. Same as CHEN 5450. Prerequisites: Requires pre-requisite courses of CHEN 4830 or CHEM 3311 and CHEN 4330 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4460 (3) Polymer Engineering

Introductory polymer engineering course reviewing basic terminology and definitions; the properties and synthetic routes of important industrial polymers; and processing of polymers and their applications. Prereq., CHEM 3311 and CHEN 3320 (min. grade C-). Same as CHEN 5460. Prerequisites: Requires pre-requisite courses of CHEM 3311 and CHEN 3320.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4520 (3) Chemical Process Synthesis

Studies applied chemical process design including equipment specification and economic evaluation. Prerequisites: Requires pre-requisite courses of CHEN 3210, 3220, and 4330 or 4830 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4530 (2) Chemical Engineering Design Project

Provides a team-based capstone design experience for chemical engineering students. Projects are sponsored by industry and student design teams collaborate with industrial consultants. Projects consider chemical process and product design with emphasis on economic analysis. Deliverables include an oral mid-project design review, a final oral presentation and final written design report. Prereq., CHEN 4520 (min. grade C-). Prerequisites: Requires pre-requisite course of CHEN 4520.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4570 (4) Instrumentation and Process Control

Examines principles of control theory and their application to chemical processes. Focuses on single-loop feedback and feedforward control. Laboratory sessions cover measurement fundamentals, signal transmission, dynamic testing, control system synthesis, and implementation and adjustment. Prereqs., CHEN 3220, 4330 or 4830, and APPM 2360 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3220 and CHEN 4330 (or CHEN 4830) and APPM 2360 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

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CSCI-1000 (1) Computer Science as a Field of Work and Study

Introduces curriculum, learning techniques, time management and career opportunities in Computer Science. Includes presentations from alumni and others with relevant educational and professional experience.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as ATLS 1220.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as ATLS 1240.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-1300 (4) Computer Science 1: Programming

Teaches techniques for writing computer programs in higher level programming languages to solve problems of interest in a range of application domains.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2270 (4) Computer Science 2: Data Structures

Studies data abstractions (e.g., stacks, queues, lists, trees) and their representation techniques (e.g., linking, arrays). Introduces concepts used in algorithm design and analysis including criteria for selecting data structures to fit their applications. Prereqs., CSCI 1300, and one of APPM 1350 or MATH 1300. Prerequisites: Requires pre-requisite courses of CSCI 1300 and either APPM 1350 or MATH 1300 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2400 (4) Computer Systems

Covers how programs are represented and executed by modern computers, including low-level machine representations of programs and data, an understanding of how computer components influence performance and memory hierarchy. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2824 (3) Discrete Structures

Covers foundational materials for computer science that is often assumed in advanced courses. Topics include set theory, Boolean algebra, functions and relations, graphs, propositional and predicate calculus, proofs, mathematical induction, recurrence relations, combinatorics, discrete probability. Focuses on examples based on diverse applications of computer science. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-2830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the sophomore level. Content varies from semester to semester.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2900 (1-3) Lower Division, Undergraduate Level Independent Study

Offers selected topics at the elementary level for students with little or no previous computing experience.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-3002 (3) Human-Centered Computing Foundations

Introduces practice and research in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-3104 (4) Algorithms

Covers advanced data structures, computational geometry, cryptography, dynamic programming, greedy algorithms, divide-and-conquer, graph algorithms (e.g., depth-first search), network algorithms (e.g., shortest paths), approximation algorithms. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-3112 (1-3) Human-Centered Computing Professional Development

Supports students in developing professional skills and practices in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as ATLS 3112.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-3155 (4) Principles of Programming Languages

Study fundamental concepts on which programming of languages are based, and execution models supporting them. Topics include values, variables, bindings, type systems, control structures, exceptions, concurrency, and modularity. Learn how to select a language and to adapt to a new language. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Programming Languages

CSCI-3202 (3) Introduction to Artificial Intelligence

Surveys artificial intelligence techniques of search, knowledge representation and reasoning, probabilistic inference, machine learning, and natural language processing. Introduces artificial intelligence programming. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-3287 (3) Database and Information Systems

Surveys data management, including file systems, database management systems design, physical data organizations, data models, query languages, concurrency, and database protection. Prereq., CSCI 3104. Prerequisites: CSCI 3287 PREREQ

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| College of Engineering & Applied Science | Computer Science | Database Systems |
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CSCI-3302 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

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| College of Engineering & Applied Science | Computer Science | Artificial Intelligence |
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CSCI-3308 (3) Software Engineering Methods and Tools

Focuses on software engineering methods and tools for application development, including design and system organization; using and creating reusable libraries; building, testing, and debugging; and performance evaluation. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

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| College of Engineering & Applied Science | Computer Science | Software Engineering |
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CSCI-3434 (3) Theory of Computation

Introduces the foundations of formal language theory, computability, and complexity. Shows relationship between automata and various classes of languages. Addresses the issue of which problems can be solved by computational means, and studies complexity of solutions. Prereq., CSCI 3104 and 3155. Prerequisites: Requires pre-requisite courses of CSCI 3104 and CSCI 3155 (minimum grade C-).

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| College of Engineering & Applied Science | Computer Science | Theory of Computation |
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CSCI-3656 (3) Numerical Computation

Covers development, computer implementation, and analysis of numerical methods for applied mathematical problems. Topics include floating point arithmetic, numerical solution of linear systems of equations, root finding, numerical interpolation, differentiation, and integration. Prereqs., two semesters of calculus, linear algebra, and either CSCI 1200 or 1300.

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| College of Engineering & Applied Science | Computer Science | Numerical Computation |
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CSCI-3702 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problems, nature versus nurture, conceptual structure and metaphor, logic/problem solving, and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and PSYC 3005.

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| College of Engineering & Applied Science | Computer Science | Artificial Intelligence |
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CSCI-3753 (4) Operating Systems

Examines software comprising computing systems as it builds upon hardware to provide a programming environment. Looks at structure and function of editors, compilers/assemblers, linkers, etc. Basic operating systems concepts and systems programming in high-level languages. Prereqs., CSCI 2700 and 2400 or ECEN 3350. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4000 (3) Entrepreneurship in Computing

Examines the development of new venture creation from the entrepreneur's perspective. Provides an understanding of the entire process including opportunity identification, feasibility study, fundraising, organization, team creation, and exit strategies through case studies, oral and written presentations, and outside speakers. Taught by an experienced entrepreneur. Prereq., CSCI 2270. Restricted to juniors/seniors.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4113 (3) Unix System Administration

Introduces UNIX (Linux) system administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts. Students build a Linux server from the ground up, using provided computing resources, and must maintain and secure the server themselves. Prereqs., CSCI 2270 or instructor consent. Recommended prereq., CSCI 3308. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4123 (3) Network Laboratory

Develops enterprise level design and configuration skills on local area networking via switching and routing, as well as the provisioning of remote data communications across diverse Wan technologies, using the latest available transport and security services. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5460. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4133 (3) Security Laboratory

Allows students to gain practical experience with network security in a simulated network environment. Topics to be covered include system hardening, firewalls, intrusion detection, vulnerability assessment, and investigation. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5540. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

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CSCI-1000 (1) Computer Science as a Field of Work and Study

Introduces curriculum, learning techniques, time management and career opportunities in Computer Science. Includes presentations from alumni and others with relevant educational and professional experience.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[General Computer Science](#)

CSCI-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as ATLS 1220.

[College of Engineering & Applied Science](#)
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[General Computer Science](#)

CSCI-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as ATLS 1240.

[College of Engineering & Applied Science](#)
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[General Computer Science](#)

CSCI-1300 (4) Computer Science 1: Programming

Teaches techniques for writing computer programs in higher level programming languages to solve problems of interest in a range of application domains.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2270 (4) Computer Science 2: Data Structures

Studies data abstractions (e.g., stacks, queues, lists, trees) and their representation techniques (e.g., linking, arrays). Introduces concepts used in algorithm design and analysis including criteria for selecting data structures to fit their applications. Prereqs., CSCI 1300, and one of APPM 1350 or MATH 1300. Prerequisites: Requires pre-requisite courses of CSCI 1300 and either APPM 1350 or MATH 1300 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2400 (4) Computer Systems

Covers how programs are represented and executed by modern computers, including low-level machine representations of programs and data, an understanding of how computer components influence performance and memory hierarchy. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the sophomore level. Content varies from semester to semester.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-2900 (1-3) Lower Division, Undergraduate Level Independent Study

Offers selected topics at the elementary level for students with little or no previous computing experience.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4000 (3) Entrepreneurship in Computing

Examines the development of new venture creation from the entrepreneur's perspective. Provides an understanding of the entire process including opportunity identification, feasibility study, fundraising, organization, team creation, and exit strategies through case studies, oral and written presentations, and outside speakers. Taught by an experienced entrepreneur. Prereq., CSCI 2270. Restricted to juniors/seniors.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the senior undergraduate level. Content varies from semester to semester. May be repeated up to 9 total credit hours.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4900 (1-3) Upper Division, Undergraduate Level Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on a small research problem or tutor lower-division computer science students. Prereq., CSCI 1200 or 1300.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4950 (2-4) Senior Thesis

Provides an opportunity for senior computer science majors to conduct exploratory research in computer science. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, and Computer Science electives, and WRTG 3030. Restricted to seniors. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-5900 (1-6) Master's Level Independent Study

Provides opportunities for independent study at the master's level. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6000 (1) Introduction to the Computer Science PhD Program

Instructs new Ph.D students in Computer Science how to obtain a Ph.D and how to become an effective member of the computer science research community. Makes students aware of formal

requirements, educational objectives, and research themes. Provides evaluative criteria and guidelines for all objectives to be achieved. Restricted to new Ph.D students in Computer Science.
Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6800 (1-6) Master of Engineering Project

Students seeking the master of engineering degree must complete a creative investigation project, including a written report, supervised by a member of the graduate faculty. Prereq., completion of 21 hours towards the ME degree. Prerequisites: Restricted to graduate student Computer Sciences students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6940 (1) Master's Degree Candidacy

For students who need to be registered for the purpose of taking the master's comprehensive exam and who are not otherwise registered. Credit does not count toward degree requirements. Graded on a pass/fail basis. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-7000 (1-4) Current Topics in Computer Science

Covers research topics of current interest in computer science that do not fall into a standard subarea. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-7900 (1-6) Doctoral Level Independent Study

For doctoral students.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-8990 (1-10) Doctoral Dissertation

Investigates some specialized field of computer science. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

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ASEN-1000 (1) Introduction to Aerospace Engineering Sciences

Introduces aerospace history, curriculum, ethics, and the many areas of emphasis within aerospace engineering. Academic and industry speakers are invited to address various aerospace topics. Prerequisites: Restricted to students with 0-26 credits (Freshmen) Aerospace Engineering (ASEN) or Engineering Open Option majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

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CHEN-1000 (3) Creative Technology

Lect. Introduces undergraduate arts and sciences students to the most recent concepts in technology and how these concepts impact all aspects of life, such as health, the health of the planet, and social structures. Engineering students should consult an advisor before registering for this course. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to non-Engineering majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

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CSCI-1000 (1) Computer Science as a Field of Work and Study

Introduces curriculum, learning techniques, time management and career opportunities in Computer Science. Includes presentations from alumni and others with relevant educational and professional experience.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [General Computer Science](#)

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EVEN-1000 (1) Introduction to Environmental Engineering

Introduces students to environmental engineering as an academic major and a career. Covers air quality, aquatic ecology, chemical processing, energy, site remediation, and water resources and treatment. Includes reading and writing on the history of environmental engineering, major environmental issues, and professional ethics.

[College of Engineering & Applied Science](#) [Environmental Engineering](#)

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EVEN-1000 (1) Introduction to Environmental Engineering

Introduces students to environmental engineering as an academic major and a career. Covers air quality, aquatic ecology, chemical processing, energy, site remediation, and water resources and treatment. Includes reading and writing on the history of environmental engineering, major environmental issues, and professional ethics.

[College of Engineering & Applied Science](#)
[Environmental Engineering](#)

EVEN-2840 (1-3) Independent Study: General Topics

General topics relating to environmental engineering. One-on-one assistance with an instructor.

[College of Engineering & Applied Science](#)
[Environmental Engineering](#)

EVEN-4100 (3) Environmental Sampling and Analysis

Introduces students to hands-on environmental sampling and analysis techniques for characterization of surface water, subsurface water, soils and sediments, and air. Laboratories include stream sampling, drilling, monitoring well installation, water level, slug tests, air sampling. Prereqs., CVEN 4404 and 4414, fluid mechanics, or instructor consent.

[College of Engineering & Applied Science](#)
[Environmental Engineering](#)

EVEN-4830 (3) Special Topics

College of Engineering & Applied Science Environmental Engineering

EVEN-4840 (1-3) Independent Study: General Topics

General topics relating to environmental engineering. One-on-one assistance with an instructor. May be repeated up to 6 total credit hours.

College of Engineering & Applied Science Environmental Engineering

EVEN-4980 (3) Senior Thesis 1

Provides faculty-supervised independent research in environmental engineering for students planning to complete a senior thesis. To be taken prior to EVEN 4990, during the final year before graduation. Instructor consent required. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Environmental Engineering

EVEN-4990 (3) Senior Thesis 2

Continuation of EVEN 4980. Consists of final phase of faculty-supervised research, the preparation of a written thesis, and an oral defense of the research to a committee. Prereq., EVEN 4980.

College of Engineering & Applied Science Environmental Engineering

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MCEN-1000 (1) Freshmen Seminar

Lect. and lab. Introduces facets of mechanical engineering including history of the profession, mechanical engineering curriculum, industries in which mechanical engineers practice, and expectations and tools for academic success. Students participate in hands-on experiences, visit industry, make oral presentations, meet faculty and practicing professionals, and develop goal statements. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Math](#)

MCEN-1025 (4) Computer-Aided Design and Fabrication

Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping. Restricted to MCEN majors. Prerequisites: Restricted to Mechanical Engineering or Engineering Physics majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

MCEN-1208 (1-4) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 1208-1298. Prereq., instructor consent. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-2023 (3) Statics and Structures

Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., APPM 1360. Prerequisites: Requires prerequisite course of APPM 1360 or MATH 2300. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or Civil & Envrn Engr Concurrent Degree majors or Mechanical Engr Concurrent Degree majors.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-2024 (3) Materials Science

Structure, properties, and processing of metallic, polymeric, ceramic, and composite materials. Perfect and imperfect solids; phase equilibria; transformation kinetics; mechanical behavior; material degradation. Approach incorporates both materials science and materials engineering components. Prereqs., CHEN 1211, CHEM 1221 and PHYS 1110. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors or Civil & Environmental Engineering Concurrent Degree or Mechanical Engineering Concurrent Degree majors

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-2043 (3) Dynamics

Covers dynamic behavior of particle systems and rigid bodies; 2-D and 3-D kinematics and kinetics; impulse, momentum, potential, and kinetic energy; and work, collision, and vibration. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., MCEN 2023. Formerly MCEN 3043. Prerequisites: Requires prerequisite courses of MCEN 2023 (or CVEN 2121 or GEEN 3851). Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-2063 (3) Mechanics of Solids

Covers shear force and bending moment, torsion, stresses in beams, deflection of beams, matrix analysis of frame structures, analysis of stress and strain in 2-D and 3-D (field equations, transformations), energy methods, stress concentrations, and columns. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Credit not granted for this course and CVEN 3161. Prerequisites: Requires prerequisite courses of MCEN 2023 or CVEN 2121 or GEEN 3851. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-3012 (3) Thermodynamics

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as GEEN 3852. Prerequisites: Requires prerequisite course of APPM 2350 or MATH 2400. Restricted to students with 57-180 credits (Junior/Senior) MCEN or EVEN majors or concurrent degree majors in CVEN/EVEN or MCEN.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

MCEN-3017 (3) Circuits and Electronics

Introductory course covers analysis of electric circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Prereqs., APPM 2360 and PHYS 1140. Same as ECEN 3010. Prerequisites: Restricted to students in the MSC/CU-Boulder Mechanical Engineering Partnership Program only.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-3021 (3) Fluid Mechanics

Examines fundamentals of fluid flow with application to engineering problems. Explores fluid statics and kinematics; conservation equations for mass, momentum, and energy; Bernoulli and Euler equations; potential flow; laminar and turbulent viscous boundary layers; laminar and turbulent pipe flow; and compressible fluid flow. Prereqs., APPM 2360 and MCEN 2023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN or MCMR) or Environmental Engineering (EVEN) majors or Civil/Environmental Engineering or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-3022 (3) Heat Transfer

Studies fundamentals of heat transfer by conduction, convection, and radiation. Provides applications to heat exchangers, solar panels, and boiling and mass transfer. Also covers numerical methods for solving heat transfer problems and design of engineering equipment involving heat transfer processes. Prerequisites: Requires prereq courses of MCEN 3012 (or GEEN 3852, or CHEN 3320, or ASEN 2002, or AREN 2110) & MCEN 3021 (or GEEN 3853, or CHEN 3200, or CVEN 3313) & MCEN 3030. Restricted to students w/ 57-180 credits (Jr or Sr) MCEN or EVEN majors.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-3025 (3) Component Design

Application of mechanics and materials science to the detailed design of various machine elements including shafts bearings, gears, brakes, springs, and fasteners. Emphasizes application and open-ended design problems. Prereq., MCEN 2063. Prerequisites: Requires pre-requisite course of MCEN 2063 (or CVEN 3161, or ASEN 3112).

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-3030 (3) Computational Methods

Studies fundamental numerical techniques for the solution of commonly encountered engineering problems. Includes methods for linear and nonlinear algebraic equations, data analysis, numerical differentiation and integration, ordinary and partial differential equations. Prereqs., GEEN 1300 and APPM 2360, or equivalent, including a working knowledge of Matlab. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, Mechanical (MCEN or MCMR) or Environmental Engineering (EVEN) or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-3032 (3) Thermodynamics 2

Offers advanced topics and applications, including thermodynamics of state, entropy and probability, thermodynamic cycles, and reacting and nonreacting mixtures. Provides application to engines and power generation by conventional and alternative energy technologies. Most assignments are design oriented. Prereqs., MCEN 3012 and 3021. Prerequisites: Requires prerequisite course

of MCEN 3021 (or CHEN 3200 or CVEN 3313 or GEEN 3853) and MCEN 3012 (or AREN 2110 or GEEN 3852). Restricted to students with 57-180 credits (Junior/Senior) Mechanical Engineering or Environmental Engineering majors only.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-3037 (2) Data Analysis

Learn to plan and carry out experiments. Coverage includes measurement fundamentals, basic statistical concepts, and uncertainty analysis. Use of statistics for the purpose of analyzing data, including regression, correlation, hypothesis testing, classification, time series analysis, and design of experiments. Prereq., APPM 2360. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-3208 (1-3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 3208-3298. Instructor consent required. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

College of Engineering & Applied Science Mechanical Engineering Special Topics

MCEN-4026 (3) Manufacturing Processes and Systems

Engineering-science design course that examines manufacturing processes for metals, polymers, and composites as well as manufacturing systems that integrate these processes. Lecture topics include: forming, machining, joining, assembling, process integration, computer-aided manufacturing, and manufacturing system engineering. Prereq., MCEN 2024. Prerequisites: Requires prerequisite course of MCEN 2024. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Manufacturing and Systems

MCEN-4037 (2) Measurements Lab

Carry out several experiments designed to teach methods of experimentation and data analysis. Experiments taken from solid mechanics, fluid mechanics, thermal science, and materials science. Emphasizes planning an experiment, applying sound procedures, keeping proper records, and communicating results orally and in written reports. Gives students the opportunity to participate in projects that extend over two or more weeks. Prerequisites: Requires prerequisites of ECEN3010 & MCEN2063 (or CVEN3161 or ASEN3112) & MCEN3037 (or APPM4520 or 4570 or CVEN3227 or CHEN3010) & WRTG3030 (or WTRG3035 or HUEN3100 or PHYS3050). Restricted to MCEN majors w/57-180 credits (juniors/seniors).

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4043 (3) System Dynamics

Covers linear dynamic systems and mathematical tools for understanding them, input-output relationships, modeling templates, complex variables, Laplace transform, time-harmonic forcing and response, Fourier series and discrete Fourier transform, and coupled systems. Prereq., ECEN 3010 and MCEN 2043 or 3043. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-4045 (3) Mechanical Engineering Design Project 1

First part of a two-course capstone design experience in mechanical engineering. Covers problem definition, determining design requirements, alternative design concepts, engineering analysis, proof-of-concept prototype, and CAD drawings. Students make several oral design reviews, a final design presentation, and prepare a written report. Coreq., MCEN 4026. Prerequisites: Requires prerequisite courses of MCEN 3025 & 3032 & 3022 (or CHEN 3210) and GEEN 1400 (or ECEN 1400 or GEEN 3400). Restricted to students with 87-180 credits (Senior) Mechanical Engineering majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-4047 (2) Measurements 2

Four hours of lab per week. Student teams perform laboratory projects that extend over several weeks. Takes experiments from solid mechanics, acoustics, electronics, and other ME-related disciplines. Emphasizes planning an experiment, applying sound experimental procedures, using statistics, keeping proper records, and communicating results orally, on posters, and in written documents. Prerequisites: Requires prerequisite courses of MCEN 2024 and MCEN 4037. Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4085 (4) Mechanical Engineering Design Project 2

Second part of a two-course capstone design experience in mechanical engineering. Includes refinement of prototype, design optimization, fabrication, testing, and evaluation. Students orally present the final design and prepare a written report and operation manual for the product. Prereq., MCEN 4026 and 4045. Prerequisites: Requires prerequisite courses of MCEN 4026 and MCEN 4045. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-4115 (3) Mechantronics and Robotics I

Focuses on design and construction of microprocessor-controlled electro-mechanical systems. Lectures review critical circuit topics, introduce microprocessor architecture and programming, discuss sensor and actuator component selection, robotic systems, and design strategies for complex, multi-system devices. Lab work reinforces lectures and allows hands-on experience with robotic design. Students must design and build an autonomous robotic device. Project expenses may be incurred (\$50 maximum). Prereqs., ECEN 3010 or equivalent and GEEN 1300 or equivalent. Same as MCEN 5115. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-4117 (3) Anatomy and Physiology for Engineers

Understanding human physiological function from an engineering, specifically mechanical engineering, viewpoint. Introduction to human anatomy and physiology with a focus on learning fundamental concepts and applying engineering (mass transfer, fluid dynamics, mechanics, modeling) analysis. Same as MCEN 5117. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4120 (3) Engineering Statistics

Focuses on probability and statistics, emphasizing engineering applications. Studies frequency distributions; statistical hypotheses and estimation; nonparametric, linear regression, and correlation; nonlinear and multiple regression; analysis of variance; and quality control. Prereq., APPM 2360.

College of Engineering & Applied Science | Mechanical Engineering | Math

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MCEN-1000 (1) Freshmen Seminar

Lect. and lab. Introduces facets of mechanical engineering including history of the profession, mechanical engineering curriculum, industries in which mechanical engineers practice, and expectations and tools for academic success. Students participate in hands-on experiences, visit industry, make oral presentations, meet faculty and practicing professionals, and develop goal statements. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Math](#)

MCEN-3030 (3) Computational Methods

Studies fundamental numerical techniques for the solution of commonly encountered engineering problems. Includes methods for linear and nonlinear algebraic equations, data analysis, numerical differentiation and integration, ordinary and partial differential equations. Prereqs., GEEN 1300 and APPM 2360, or equivalent, including a working knowledge of Matlab. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, Mechanical (MCEN or MCMR) or Environmental Engineering (EVEN) or Mechanical Engineering Concurrent Degree majors only.

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MCEN-4120 (3) Engineering Statistics

Focuses on probability and statistics, emphasizing engineering applications. Studies frequency distributions; statistical hypotheses and estimation; nonparametric, linear regression, and correlation; nonlinear and multiple regression; analysis of variance; and quality control. Prereq., APPM 2360.

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MCEN-5020 (3) Methods of Engineering Analysis 1

Studies selected topics from linear algebra, ordinary differential equations, and Fourier series. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., APPM 2360 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-5040 (3) Methods of Engineering Analysis 2

Studies selected topics from the theory of complex variables, integral transform methods, partial differential equations, and variational methods. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-7120 (3) Perturbation Methods

Teaches regular and singular perturbation methods for solving ordinary and partial differential equations and for evaluating integrals. Emphasizes formulation of mathematical models in fluid mechanics, combustion, heat transfer, solid mechanics, dynamics, and wave propagation. Prereq., MCEN 5020 and 5040, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Math

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HUEN-1010 (3) Introduction to the Humanities

Explores a wide variety of challenging and interesting humanistic themes (love, responsibility, ambition, etc.) in many forms (fiction, philosophy, plays, poetry, art, music, etc.). In small discussion-based classes, emphasizes the writing, public speaking and critical thinking skills needed to excel as a professional engineer. Fulfills College of Engineering writing requirement for first-year freshmen only. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-1843 (3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-1850 (3) Engineering in History: The Social Impact of Technology

Explores how engineering has shaped who we are, how we think, and what we think about, by examining preconceived notions of progress, property, time, and work. Textbook readings plus original sources in philosophy, literature, psychology, and economics provide a rich and stimulating tour of engineering history. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-2010 (3) Tradition and Identity

Explores the place and possibility of personal identity both within and against the influence of tradition, including family, culture, language, and social, political and economic institutions. Via

literature and film, wrestles with the nature of freedom, self-determination, and belonging. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2020 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2100 (3) History of Science and Technology to Newton

Spans invention and discovery from the Stone Age to the age of Newton, raising questions about culture, history, and personal expectation; studies Pyramids, odometers, cathedrals, Galileo, etc., on the way. Formerly HUEN 1100. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2120 (3) History of Modern Science from Newton to Einstein

Surveys the great discoveries and theoretical disputes from Newtonian celestial mechanics to the theory of relativity. Includes physics, astronomy, chemistry, geology, and biology; closely examines scientific method, evolution, light and quantum theory. Uses original sources by Newton, Faraday, Lavoisier, Darwin, etc., for immediate contact with the great minds in science. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2130 (3) History of Modern Technology from 1750 to the Atomic Bomb

Surveys the great innovations from the Steam Age to the Atomic Age: transportation, modern construction, communications, internal combustion, etc. Supplements textbook accounts with drawings, patents, and original selections by Edison, Carnegie, Tesla, Bell, etc. Studies the sociological impact of social change via contemporary sources in literature, philosophy, painting and film. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2210 (3) Engineering, Science, and Society

Explores challenges that engineering and science pose for society plus the ways that societies shape or impede science and engineering. Case studies range from contemporary issues (global warming, nuclear weapons, and genetic engineering) to classic cases (the execution of Socrates). Core texts in the Western Tradition supplement contemporary articles and films. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2843 (1-3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-3100 (3) Humanities for Engineers 1

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering & Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-3200 (3) Humanities for Engineers 2

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering and Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Requires pre-requisite course of HUEN 3100. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-3700 (3) Culture Wars in Rome

Investigates in Rome, Italy (during Maymester), the cultural contrasts among three different cities: ancient, pagan, aristocratic Rome; medieval, Christian, theocratic Rome; and modern, secular, democratic Rome. Draws on evidence from Roman literature, politics, art, and architecture. Must have completed a minimum of 26 credit hours by start of course. Requires some preparatory work in Boulder.

College of Engineering & Applied Science Humanities for Engineers

HUEN-3750 (3) Xi'an, China: Self-Awareness and Images of the Other

Explores Chinese culture abroad, focusing on ideas of self and other within special historical, social, political, and economical circumstances. Chinese and American concepts of self and society, of individual, collective, and national identities will be analyzed. Held on the campus of Xi'an Jiaotong University, China. Prerequisite: HUEN 1010 or equivalent.

College of Engineering & Applied Science Humanities for Engineers

HUEN-3840 (1-3) Independent Study

Offers an opportunity for students to do independent work in the humanities. Subject arranged to fit the needs of the student. May be repeated up to 3 total credit hours. Instructor consent required. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-3843 (3) Special Topics

Explores different important themes in the humanities, check with department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Humanities for Engineers

HUEN-4200 (3) Humanities for Engineers 4

Continuation of HUEN 4100. Provides opportunity to pursue a variety of humanistic themes related to Herbst Humanities Program. Prereq., HUEN 4100.

College of Engineering & Applied Science | Humanities for Engineers

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MCEN-1025 (4) Computer-Aided Design and Fabrication

Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping. Restricted to MCEN majors. Prerequisites: Restricted to Mechanical Engineering or Engineering Physics majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

MCEN-3025 (3) Component Design

Application of mechanics and materials science to the detailed design of various machine elements including shafts bearings, gears, brakes, springs, and fasteners. Emphasizes application and open-ended design problems. Prereq., MCEN 2063. Prerequisites: Requires pre-requisite course of MCEN 2063 (or CVEN 3161, or ASEN 3112).

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

MCEN-4045 (3) Mechanical Engineering Design Project 1

First part of a two-course capstone design experience in mechanical engineering. Covers problem definition, determining design requirements, alternative design concepts, engineering analysis, proof-of-concept prototype, and CAD drawings. Students make several oral design reviews, a final design presentation, and prepare a written report. Coreq., MCEN 4026. Prerequisites: Requires prerequisite courses of MCEN 3025 & 3032 & 3022 (or CHEN 3210) and GEEN 1400 (or ECEN 1400 or GEEN 3400). Restricted to students with 87-180 credits (Senior Mechanical Engineering majors or Mechanical Engineering Concurrent Degree majors only).

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

MCEN-4085 (4) Mechanical Engineering Design Project 2

Second part of a two-course capstone design experience in mechanical engineering. Includes refinement of prototype, design optimization, fabrication, testing, and evaluation. Students orally present the final design and prepare a written report and operation manual for the product. Prereq., MCEN 4026 and 4045. Prerequisites: Requires prerequisite courses of MCEN 4026 and MCEN 4045. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-4115 (3) Mechantronics and Robotics I

Focuses on design and construction of microprocessor-controlled electro-mechanical systems. Lectures review critical circuit topics, introduce microprocessor architecture and programming, discuss sensor and actuator component selection, robotic systems, and design strategies for complex, multi-system devices. Lab work reinforces lectures and allows hands-on experience with robotic design. Students must design and build an autonomous robotic device. Project expenses may be incurred (\$50 maximum). Prereqs., ECEN 3010 or equivalent and GEEN 1300 or equivalent. Same as MCEN 5115. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-4135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-5025 (3) Computer-Aided Design of Mechanical Systems

Instructs students in displacement, velocity, and accelerations matrix formulation of mechanisms. Emphasizes numerical methods to solve simultaneous nonlinear algebraic and differential equations modeling mechanical devices. Involves analysis and synthesis of mechanical components and systems, including planar and spatial linkages, cams, springs, shafts, and gear trains. Prereqs., MCEN 3030 or equivalent, and MCEN 3025. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-5115 (3) Mechantronics and Robotics I

Same as MCEN 4115. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-5125 (3) Optimal Design of Mechanical Components

Applies linear and nonlinear optimization methods to the design of mechanical components and systems. Examines unconstrained and constrained optimization as well as formulation of objective functions, including cost, weight, response time, and deflection. Applies knowledge to gears, springs, cams, and linkages. Prereqs., MCEN 3025 and 3030 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-5135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 5135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to Mechanical Engineering, Civil Engineering or Aerospace Engineering graduate students only.

College of Engineering & Applied Science | Mechanical Engineering | Design

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AREN-1027 (3) Engineering Drawing

Introduces engineering drawing including sections and dimensioning, print readings, and computer 3D modeling. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Engineering Physics (EPEN), Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-1037 (3) Building Information Modeling

Learn to develop and communicate physical information using three-dimensional graphical systems including Computer-Aided Design (CAD) and Building Information Models (BIM). Learn to dimension and scale physical systems and interpret scaled drawings. Get experience with industry standard software tools (REVIT) used to produce design and construction documents, and apply BIM and CAD tools in a project producing scaled 3-D drawings.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-1316 (2) Introduction to Architectural Engineering

Surveys the broad subject of architectural engineering and professional practices. Includes professional design services, design documents, methods of construction delivery, materials for construction, codes and standards, life safety, professional ethics, structural systems, mechanical systems, electrical systems, and building systems integration. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

CVEN-1317 (2) Introduction to Civil and Environmental Engineering

Surveys the broad subject of civil and environmental engineering and professional practice. Includes the subdisciplines of structures, water resources, geotechnics, transportation, environment, and construction. Discusses professional ethics, important skills for engineers, and the engineering design process as it fulfills multiple objectives.

College of Engineering & Applied Science Civil Engineering Miscellaneous

CVEN-2012 (3) Introduction to Geomatics

Observes, analyzes, and presents basic linear, angular, area, and volume field measurements common to civil engineering endeavors with application of GPS and GIS technology. Prereq., APPM 1350 or equivalent. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

AREN-2050 (3) Engineering Systems for Buildings

Provides an overview of the building mechanical and electrical systems, including HVAC, plumbing, solar, power distribution, illumination, life safety, transportation, and noise control systems. Emphasizes sustainable (green) building practices. Includes a team investigation of existing commercial building. Prereqs., AREN 1027 and 2406. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-2110 (3) Thermodynamics

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Computing in the context of engineering problems is introduced. Prereq., PHYS 1110 or equivalent. Coreq., APPM 1360 or equivalent. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Architectural (AREN), Civil (CVEN), or Environmental (EVEN) Engineering majors or Civil/Environmental (C-EVENCVEN) Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-2120 (3) Fluid Mechanics and Heat Transfer

Explores fundamental principles of fluid dynamics and heat transfer. Topics include fluid statics, momentum, and energy conservation, laminar and turbulent viscous flow, convection heat transfer, conduction heat transfer, heat exchangers, and heat transfer. Prereqs., APPM 2350 and AREN 2110. Coreq., APPM 2360.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-2121 (3) Analytical Mechanics 1

Covers forces acting on rigid bodies at rest. Equilibrium is the central concept that will be applied repeatedly to different situations. In each case, the object of interest will be isolated along with all the forces acting on it; a free body diagram. Equilibrium will be applied to analyze trusses, frames, machines, cables and hydrostatic forces on dams. Prereq., PHYS 1110. Prereq. or coreq., APPM 2350. Same as GEEN 3851. Restricted to freshmen or sophomore Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Restricted to students with 0-56

(Freshmen or Sophomore) Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

AREN-2406 (3) Introduction to Building Construction

Covers the broad subject of building materials, assembly details, and their method of construction. Includes codes and classifications, foundations, wood, steel, concrete, masonry, cladding, doors and windows, interiors, and finishes. Formerly AREN 3406. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Architectural Engineering (AREN) majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

AREN-2830 (1-3) Special Topics

Supervised study of special topics of interest to students under instructor guidance. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Special Topics

AREN-3010 (3) Mechanical Systems for Buildings

Lecture course on the analysis and design of buildings and their systems to satisfy the requirements for a comfortable and healthy indoor environment. Examines psychometrics, thermal comfort, building heating and cooling loads, fluid flow basics, and HVAC components and systems. Prereqs., AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852, or MCEN 3012, or ASEN 2002) and AREN 2050. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite courses of AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852 or MCEN 3012 or ASEN 2002) and AREN 2050. Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CVEN-3022 (3) Construction Surveying

Studies construction and highway surveying, horizontal and vertical curves, earthwork, and analysis of data. Prereq., CVEN 2012.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

CVEN-3032 (3) Photogrammetry

Familiarizes students with characteristics of aerial photographs. Measures and interprets aerial photos for planimetric, topographic, hydrological, soil, and land use surveys. Analyzes and presents field measurements over extensive reaches. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

AREN-3050 (3) Environmental Systems for Buildings 1

Introduces the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-3060 (3) Environmental Systems for Buildings 2

Continues the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CVEN-3111 (3) Analytical Mechanics 2

Studies the motion (kinematics) of particles and rigid bodies, and the forces that cause the motion (kinetics). Newton's laws as well as energy methods are used to study the motion of particles and rigid bodies in two and three dimensions. Prerequisites: Requires pre-requisite courses of CVEN 2121. Requires a co-requisite course of APPM 2360.

College of Engineering & Applied Science | Civil Engineering | Mechanics

AREN-3130 (3) Building Energy Laboratory

Laboratory course offering both hands-on experience with building and renewable energy systems and exposing students to the fundamentals of measurements, instrumentation, data acquisition, and statistical data analysis. Measurements and experiments will allow evaluation of building construction material, electrical equipment, lighting systems, heating and cooling systems, and solar energy devices, among others. Prereq., AREN 3010.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-3140 (3) Illumination Laboratory

Introduces the measurement of photometric and psychophysical quantities used in lighting. Experience is acquired in using light measurement instruments to evaluate lighting equipment and luminous environments. Prereq., AREN 3540.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CVEN-3161 (3) Mechanics of Materials 1

Addresses concepts of stress and strain; material properties, axial loading, torsion, simple bending, and transverse shear; analysis of stress and strain; and deflections of beams. Includes selected experimental and computational laboratories. Prereq., CVEN 2121. Coreq., APPM 2360. Restricted to Architectural or Civil Engineering majors only. Credit not granted for this course and MCEN 2063. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-3227 (3) Probability, Statistics and Decision

Introduces uncertainty based analysis concepts and applications in the planning and design of civil engineering systems emphasizing probabilistic, statistics, and design concepts and methods. Restricted to juniors/seniors.

College of Engineering & Applied Science Civil Engineering Miscellaneous

CVEN-3246 (3) Introduction to Construction

Broad view of concerns, activities, and objectives of people involved in construction: the owner, architect/engineer, contractor, labor, and inspector. Interactive gaming situation relates these people to the construction contract, plans/specifications, estimates/bids, scheduling, law, and financial management. Restricted to junior or senior Civil or Architectural Engineering majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN) or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-3256 (3) Construction Equipment and Methods

Integrated study of construction equipment, methods, and economics. Topics include equipment productivity, equipment selection, and construction engineering design within economic constraints. Examples include earthmoving, concrete formwork, and temporary construction. Recommended prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-3313 (3) Theoretical Fluid Mechanics

Basic principles of fluid mechanic. Covers fluid properties, hydrostatics, fluid flow concepts, including continuity, energy, momentum, dimensional analysis and similitude, and flow in closed conduits. Prereq., CVEN 2121. Prerequisites: Requires pre-requisite course of CVEN 2121 (or GEEN 3851, or ASEN 2001, or MCEN 2023).

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-3323 (3) Hydraulic Engineering

Studies hydraulic engineering theory and applications. Topics include incompressible flow in conduits, pipe system analysis and design, open channel flow, flow measurement, analysis and design of hydraulic machinery. Prereq., CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (ARCH) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

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AREN-1027 (3) Engineering Drawing

Introduces engineering drawing including sections and dimensioning, print readings, and computer 3D modeling. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Engineering Physics (EPEN), Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-1037 (3) Building Information Modeling

Learn to develop and communicate physical information using three-dimensional graphical systems including Computer-Aided Design (CAD) and Building Information Models (BIM). Learn to dimension and scale physical systems and interpret scaled drawings. Get experience with industry standard software tools (REVIT) used to produce design and construction documents, and apply BIM and CAD tools in a project producing scaled 3-D drawings.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-1316 (2) Introduction to Architectural Engineering

Surveys the broad subject of architectural engineering and professional practices. Includes professional design services, design documents, methods of construction delivery, materials for construction, codes and standards, life safety, professional ethics, structural systems, mechanical systems, electrical systems, and building systems integration. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-4317 (5) Architectural Engineering Design

Provides a capstone experience to AREN students. Students design a modest commercial building and complete an integrated engineering design of the building systems executed for the conceptual, schematic, and design development phases. Students' teams work on structural, mechanical, electrical/lighting, and construction engineering management design. Each stage produce a professional-quality design document. Faculty and industry mentors participate in the teaching and evaluation of designs. Prerequisites: Requires pre-requisite courses of AREN 3010, CVEN 3246, CVEN 3525, and AREN 3540 (all min grade C-). Requires a pre-requisite or co-requisite course of AREN 4570.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

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MCEN-1000 (1) Freshmen Seminar

Lect. and lab. Introduces facets of mechanical engineering including history of the profession, mechanical engineering curriculum, industries in which mechanical engineers practice, and expectations and tools for academic success. Students participate in hands-on experiences, visit industry, make oral presentations, meet faculty and practicing professionals, and develop goal statements. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Math](#)

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HUEN-1010 (3) Introduction to the Humanities

Explores a wide variety of challenging and interesting humanistic themes (love, responsibility, ambition, etc.) in many forms (fiction, philosophy, plays, poetry, art, music, etc.). In small discussion-based classes, emphasizes the writing, public speaking and critical thinking skills needed to excel as a professional engineer. Fulfills College of Engineering writing requirement for first-year freshmen only. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Humanities for Engineers](#)

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MCEN-1025 (4) Computer-Aided Design and Fabrication

Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping. Restricted to MCEN majors. Prerequisites: Restricted to Mechanical Engineering or Engineering Physics majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

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AREN-1027 (3) Engineering Drawing

Introduces engineering drawing including sections and dimensioning, print readings, and computer 3D modeling. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Engineering Physics (EPEN), Architectural (AREN) or Civil (CVEN) Engineering majors only.

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AREN-1037 (3) Building Information Modeling

Learn to develop and communicate physical information using three-dimensional graphical systems including Computer-Aided Design (CAD) and Building Information Models (BIM). Learn to dimension and scale physical systems and interpret scaled drawings. Get experience with industry standard software tools (REVIT) used to produce design and construction documents, and apply BIM and CAD tools in a project producing scaled 3-D drawings.

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ECEN-1100 (1) Freshman Seminar

Introduces students to areas of emphasis with the ECE department through seminars presented by faculty and outside speakers. Emphasizes career opportunities, professional ethics and practices, history of the profession, and resources for academic success. Several sessions promote team building and problem solving, and provide opportunities for freshmen to meet their classmates. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

ECEN-1400 (3) Introduction to Digital and Analog Electronics

Introduces fundamental concepts in electrical and computer engineering such as Ohm's Law, capacitors, Leds and 7-segment displays, transformers and rectifiers, digital logic, Fourier decomposition, frequency analysis. Lab work exposes students to commonly used instrumentation. Includes a final project. Skills in wiring, soldering and wire-wrapping are developed. Coreq., APPM 1350.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
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ECEN-1500 (3) Sustainable Energy

Explores how energy is created and used in today's society. Through collaborative discussion and hands-on data collection, students will analyze the engineering challenges, fundamental limits, and potential solutions to meeting our energy needs sustainably. Students will learn to analyze numerical data, estimate orders, of magnitude, and apply mathematical methods in their own lives and in the ongoing energy debate. Basic algebra required. Restricted to non-engineering majors. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Engineering & Applied Science](#)
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ECEN-1840 (1-6) Independent Study

Provides an opportunity for freshmen to do independent, creative work. Numbered ECEN 1840 through ECEN 1849. Prereq., instructor consent.

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ECEN-2010 (1-5) Special Topics

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ECEN-2020 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2050 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2060 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2250 (3) Introduction to Circuits and Electronics

Introduces linear circuit analysis and design, including extensive use of OP amps. Presents DC networks, including node and mesh analysis with controlled sources. Analysis of RL and RC circuits for both transient and sinusoidal steady-state responses using phasors. Prereq., APPM 1360. Coreq., APPM 2360. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-2260 (3) Circuits as Systems

Continues basic circuit analysis of ECEN 2250: Laplace transform techniques, transfer functions, frequency response, Bode diagrams, resonant circuits, Fourier series expansions, and convolution. Prereq., ECEN 2250. Coreq., Electronics Design Laboratory. Prerequisites: Requires pre-requisite course of ECEN 2250 (minimum grade C-). Restricted to College of Engineering students only.

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ECEN-2270 (3) Electronics Design Lab

Provides an introduction to analysis, modeling, design, and testing of analog electronic circuits in a practical laboratory setting. The laboratory is centered around a robot platform and includes design, Spice simulations, prototyping and testing of circuits necessary to drive and remote control the robot. Coreq., ECEN 2260. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-2350 (3) Digital Logic

Covers the design and applications of digital logic circuits, including combinational and sequential logic circuits. Laboratory component introduces simulation and synthesis software and hands-on hardware design. Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only. Prereq., ECEN 1030 or CSCI 1300. Prerequisites: Requires pre-requisite course of ECEN 1030 or CSCI 1300 (minimum grade C-). Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2420 (3) Electronics for Wireless Systems

Explores fundamental principles behind the operation of a radio, including a practical introduction to circuit elements. The course covers the components and operation of a radio (transmitter and receiver) with simple signals. Students learn through demos the practical basic properties of all needed components with an introduction to principles of operation. Prereqs., PHYS 1120, and APPM 1360 or MATH 2300. Restricted to EN majors. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

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ECEN-2703 (3) Discrete Mathematics for Computer Engineers

Emphasizes elements of discrete mathematics appropriate for computer engineering. Topics: logic, proof techniques, algorithms, complexity, relations, and graph theory. Prereqs., ECEN 1030/CSCI 1300 and APPM 1360.

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ECEN-2830 (1-5) Special Topics

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ECEN-2840 (1-6) Independent Study

Offers an opportunity for sophomores to do independent, creative work. Numbered ECEN 2840 through ECEN 2849. Prereq., instructor consent.

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ECEN-3002 (3-5) Special Topics

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ECEN-3003 (3-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-3004 (3-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-3010 (3) Circuits and Electronics for Mechanical Engineers

Covers analysis of electrical circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Includes introductory digital electronics and microprocessors/microcontrollers. Prereqs., APPM 2360 and PHYS 1140. Same as MCEN 3017. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3030 (3) Electrical/Electronic Circuits Non-Major

For students not majoring in electrical engineering. Covers analysis of electric circuits by use of Ohm's law; network reduction; super position; node and loop analysis; Thevenin's and Norton's theorems; sinusoidal signals; phasors; power in ac circuits; transient response of simple circuits; operational amplifiers; logic circuits; and flip-flops. Prereq., APPM 2360. Restricted to nonmajors. Same as GEEN 3854. Prerequisites: Electrical/Computer Engineering Majors, Electrical Engineering Majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree Majors are restricted from taking this course.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3070 (3) Edges of Science

Examines the evidence for paranormal phenomena, reasons for skepticism, and physical models that could account for the data. Reviews controversial scientific theories that overcame barriers to acceptance, and how worldviews shift. Considers the scientific method and ways uncontrolled factors might influence experiments. Develops skills in statistical analysis of data. Includes group projects testing for anomalous and parapsychological effects. Not accepted as a technical elective for engineering majors. Prereq., MATH 1011 or equivalent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3170 (3) Energy Conversion 1

Introduces block diagrams, conventional/renewable energy sources, power electronics, magnetic circuits, transformers and power systems, forces/torques of electric machines. Employs a top-down approach to present applications first and then discuss components. Uses Pspice, Mathematica, Matlab. Prereq., PHYS 1120. Coreq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3250 (3) Microelectronics

Develops a basic understanding of active semiconductor devices. Focuses on building an understanding of BJT and CMOS devices in both digital and analog application. Prereq., ECEN 2260. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3300 (3) Linear Systems

Characterization of linear and time-invariant systems in time and frequency domains. Continuous time systems are analyzed using differential equations and Laplace and Fourier transforms. Discrete time systems, which can be implemented using a modern digital signal processing framework, use difference equations, z-transforms and discrete time Fourier transforms for their analysis and design. Applications of linear systems include communications, signal processing, and control systems. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

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ECEN-1100 (1) Freshman Seminar

Introduces students to areas of emphasis with the ECE department through seminars presented by faculty and outside speakers. Emphasizes career opportunities, professional ethics and practices, history of the profession, and resources for academic success. Several sessions promote team building and problem solving, and provide opportunities for freshmen to meet their classmates. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

ECEN-1400 (3) Introduction to Digital and Analog Electronics

Introduces fundamental concepts in electrical and computer engineering such as Ohm's Law, capacitors, Leds and 7-segment displays, transformers and rectifiers, digital logic, Fourier decomposition, frequency analysis. Lab work exposes students to commonly used instrumentation. Includes a final project. Skills in wiring, soldering and wire-wrapping are developed. Coreq., APPM 1350.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

ECEN-1500 (3) Sustainable Energy

Explores how energy is created and used in today's society. Through collaborative discussion and hands-on data collection, students will analyze the engineering challenges, fundamental limits, and potential solutions to meeting our energy needs sustainably. Students will learn to analyze numerical data, estimate orders, of magnitude, and apply mathematical methods in their own lives and in the ongoing energy debate. Basic algebra required. Restricted to non-engineering majors. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Engineering & Applied Science](#)
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[General](#)

ECEN-1840 (1-6) Independent Study

Provides an opportunity for freshmen to do independent, creative work. Numbered ECEN 1840 through ECEN 1849. Prereq., instructor consent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2010 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2020 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2050 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2060 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2250 (3) Introduction to Circuits and Electronics

Introduces linear circuit analysis and design, including extensive use of OP amps. Presents DC networks, including node and mesh analysis with controlled sources. Analysis of RL and RC circuits for both transient and sinusoidal steady-state responses using phasors. Prereq., APPM 1360. Coreq., APPM 2360. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2260 (3) Circuits as Systems

Continues basic circuit analysis of ECEN 2250: Laplace transform techniques, transfer functions, frequency response, Bode diagrams, resonant circuits, Fourier series expansions, and convolution. Prereq., ECEN 2250. Coreq., Electronics Design Laboratory. Prerequisites: Requires pre-requisite course of ECEN 2250 (minimum grade C-). Restricted to College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2270 (3) Electronics Design Lab

Provides an introduction to analysis, modeling, design, and testing of analog electronic circuits in a practical laboratory setting. The laboratory is centered around a robot platform and includes design, Spice simulations, prototyping and testing of circuits necessary to drive and remote control the robot. Coreq., ECEN 2260. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2350 (3) Digital Logic

Covers the design and applications of digital logic circuits, including combinational and sequential logic circuits. Laboratory component introduces simulation and synthesis software and hands-on hardware design. Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only. Prereq., ECEN 1030 or CSCI 1300. Prerequisites: Requires pre-requisite course of ECEN 1030 or CSCI 1300 (minimum grade C-). Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2420 (3) Electronics for Wireless Systems

Explores fundamental principles behind the operation of a radio, including a practical introduction to circuit elements. The course covers the components and operation of a radio (transmitter and receiver) with simple signals. Students learn through demos the practical basic properties of all needed components with an introduction to principles of operation. Prereqs., PHYS 1120, and APPM 1360 or MATH 2300. Restricted to EN majors. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2830 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-2840 (1-6) Independent Study

Offers an opportunity for sophomores to do independent, creative work. Numbered ECEN 2840 through ECEN 2849. Prereq., instructor consent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3010 (3) Circuits and Electronics for Mechanical Engineers

Covers analysis of electrical circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Includes introductory digital electronics and microprocessors/microcontrollers. Prereqs., APPM 2360 and PHYS 1140. Same as MCEN 3017. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3030 (3) Electrical/Electronic Circuits Non-Major

For students not majoring in electrical engineering. Covers analysis of electric circuits by use of Ohm's law; network reduction; super position; node and loop analysis; Thevenin's and Norton's theorems; sinusoidal signals; phasors; power in ac circuits; transient response of simple circuits; operational amplifiers; logic circuits; and flip-flops. Prereq., APPM 2360. Restricted to nonmajors. Same as GEEN 3854. Prerequisites: Electrical/Computer Engineering Majors, Electrical Engineering Majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree Majors are restricted from taking this course.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3070 (3) Edges of Science

Examines the evidence for paranormal phenomena, reasons for skepticism, and physical models that could account for the data. Reviews controversial scientific theories that overcame barriers to acceptance, and how worldviews shift. Considers the scientific method and ways uncontrolled factors might influence experiments. Develops skills in statistical analysis of data. Includes group projects testing for anomalous and parapsychological effects. Not accepted as a technical elective for engineering majors. Prereq., MATH 1011 or equivalent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3170 (3) Energy Conversion 1

Introduces block diagrams, conventional/renewable energy sources, power electronics, magnetic circuits, transformers and power systems, forces/torques of electric machines. Employs a top-down approach to present applications first and then discuss components. Uses Pspice, Mathematica, Matlab. Prereq., PHYS 1120. Coreq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3250 (3) Microelectronics

Develops a basic understanding of active semiconductor devices. Focuses on building an understanding of BJT and CMOS devices in both digital and analog application. Prereq., ECEN 2260. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3300 (3) Linear Systems

Characterization of linear and time-invariant systems in time and frequency domains. Continuous time systems are analyzed using differential equations and Laplace and Fourier transforms. Discrete time systems, which can be implemented using a modern digital signal processing framework, use difference equations, z-transforms and discrete time Fourier transforms for their analysis and design. Applications of linear systems include communications, signal processing, and control systems. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-3320 (3) Semiconductor Devices

Highlights the fundamentals of semiconductor materials and devices. Topics include the electrical and optical properties of semiconductors, the theory of Pn junctions, bipolar and field-effect transistors, and optoelectronic devices. Prereq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3350 (3) Programming Digital Systems

Covers computer usage in system implementation, central processor capabilities, and managing concurrency. Includes computer architecture, instruction sets, programming, input/output, interrupts, block transfers, semaphores, shared procedures, multiple processors, and memory management. Prereq., ECEN 2350. Formerly ECEN 2120. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3400 (3) Electromagnetic Fields and Waves

Electromagnetic fields are covered at an introductory level, starting with electrostatics and continuing with DC current, magnetostatics, time-varying magnetic fields, waves on transmission lines, Maxwell's equations and the basics of plane waves. The use of fields in inductors, capacitors, resistors, transformers, and energy and power concepts are studied. Prereqs., APPM 2350, PHYS 1110, and ECEN 2250. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3410 (3) Electromagnetic Waves and Transmission

Covers reflected and transmitted plane waves in layered media, Poynting's theorem of electromagnetic power, two-conductor transmission line theory and practice, Smith chart usage and impedance matching, and elements of antenna theory. Prereq., ECEN 3400. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science | Electrical & Computer Engineering | General

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GEEN-1100 (3) Social Impact of Technology

Introduces undergraduate students to the social impact of technology and how technology impacts all aspects of life, the health of planet Earth, and how people interact with each other. Fulfills Engineering social science requirements. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

EHON-1151 (3) Critical Encounters

Explores critical, literary and philosophical approaches to the following related problems: 1) how we organize knowledge and construct meaning, and 2) how we locate a sense of self as both individuals and members of various groups amidst the resources and demands of competing interpretations, traditions challenges and circumstances. Prereq., honors standing or instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

GEEN-1235 (4) Pre-Calculus for Engineers

Prepares students for the challenging content and pace of the calculus sequence required for all engineering majors. The course covers algebra, trigonometry and selected topics in analytical geometry. It prepares students for the calculus courses offered for engineering students. It requires students to engage in rigorous work sessions as they review topics that they must be comfortable with to pursue engineering course work. The course is structured to accustom students to the pace and culture of learning encountered in engineering math courses.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

GEEN-1300 (3) Introduction to Engineering Computing

Introduces the use of computers in engineering problem solving, including elementary numerical methods. Teaches programming fundamentals, including data and algorithm structure, and modular programming. Software vehicles include Excel/Vba and Matlab. Coreq., APPM 1350 or equivalent. Restricted to ENGR majors. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Engineering Administration

GEEN-1350 (1) Calculus 1 Work Group

Provides problem-solving assistance to students enrolled in APPM 1350. Student groups work in collaborative learning environment. Student participation is essential. Grading under pass/fail option only. Coreq., APPM 1350.

College of Engineering & Applied Science Engineering Administration

GEEN-1360 (1) Calculus 2 Work Group

Provides problem solving assistance for students enrolled in APPM 1360. Conducted in a collaborative learning environment. Student work groups solve calculus problems with assistance of facilitator. Grading under pass/fail option only. Prereq., APPM 1350. Coreq., APPM 1360.

College of Engineering & Applied Science Engineering Administration

GEEN-1400 (3) Engineering Projects

First-year engineering students work to solve real engineering design problems in interdisciplinary teams. Completed projects are exhibited at an end-of-semester design expo. In lieu of a textbook (available online), each student is expected to contribute up to \$75 towards their design project and poster, and purchase his/her own pair of safety glasses. Restricted to Engineering majors with 75 or fewer cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

College of Engineering & Applied Science Engineering Administration

GEEN-1410 (3) Social Innovation and Design for Sustainable Communities

Learn to apply principles of sustainability to designs. Student teams design solutions integrating scientific and social science perspectives. Emphasis is on the design process applied to sustainable solutions to real world problems. Restricted to students in the Williams Village North RAPs. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

College of Engineering & Applied Science Engineering Administration

EHON-1500 (1) Honors Reading Group

Faculty led reading seminars, focusing on specific text or texts chosen by the faculty. Special attention will be paid to group formation and the process of collaborative learning. Restricted to Engineering Honors Program (PHEN) students only or instructor consent required. Prerequisites: Restricted to Engineering Honors Program (PEHN) students only.

College of Engineering & Applied Science Engineering Administration

GEEN-1500 (2) Introduction to Engineering

Provides an introduction to the engineering profession, to include a focus on the engineering grand challenges of the future, professional and ethical expectations, and an examination of current disciplines specializations. Provides sufficient knowledge of the engineering disciplines necessary to make an informed major choice. Restricted to Engineering Majors with 75 or less cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

College of Engineering & Applied Science | Engineering Administration

GEEN-1510 (1) Self Management and Leadership Principles 1

Develops group cohesiveness, mutual support, multicultural awareness, and leadership skills. Topics include collaborative learning, motivation, time management and study skills, personal assertiveness, and career awareness. Open to new freshmen and transfer students. Controlled enrollment. Fulfills one credit hour of the Engineering social science requirement. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

GEEN-1520 (1) Self Management and Leadership Principles 2

Continuation of GEEN 1510. Controlled enrollment. Prereq., GEEN 1510. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

GEEN-1550 (1) YOU'RE@CU: Undergraduate Career Seminar

Exposes first or second year undergraduate students to engineering research careers through a partner program (YOU'RE@CU), panel discussions with researchers in academics and industry, and exposure to research labs. Restricted to YOU'RE@CU participants. Restricted enrollment; offered pass/fail only.

College of Engineering & Applied Science | Engineering Administration

GEEN-2050 (3) Engineering Leadership Gateway

Examines concepts of engineering leadership and the essential skills required to become an effective leader. Together students will explore leadership principles, creative and critical thinking, interpersonal skills (e.g. collaboration, conflict resolution, leading in diverse communities), intrapersonal development (e.g. self-appraisal, reflective practice, personal leadership philosophy), organizational competencies (e.g. planning, sustainability, climate), effective communication and ethical decision-making. Instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

GEEN-2350 (1) Calculus 3 Work Group

Provides problem solving assistance to students enrolled in APPM 2350. This course is conducted in a collaborative learning environment. Student work groups solve calculus problems with the assistance of a facilitator. Grading only under pass/fail option. Prereq., APPM 1360. Coreq., APPM 2350.

College of Engineering & Applied Science Engineering Administration

GEEN-3400 (3) Invention and Innovation

Introduction to invention and product innovation with a hands-on approach. Students explore the invention process, hone their engineering design skills, and explore entrepreneurship (patenting, intellectual property, marketing, raising capital). Student teams design, create, and test a potentially commercial product, and exhibit at an end-of-semester design expo. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Engineering Administration

GEEN-3851 (3) Statics for Engineers

Examines vector treatment of force systems and their resultants; equilibrium of frames and machines, including internal forces and three-dimensional configurations; static friction; properties of surfaces, including first and second moments; hydrostatics; and minimum potential energy and stability. Prereq., PHYS 1110. Recommended coreq., APPM 2350. Same as CVEN 2121.

College of Engineering & Applied Science Engineering Administration

GEEN-3852 (3) Thermodynamics for Engineers

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as MCEN 3012.

College of Engineering & Applied Science Engineering Administration

GEEN-3853 (3) Fluid Mechanics for Engineers

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to engineering systems. Prereqs., APPM 2350 or 2360, and GEEN 1300 or CSCI 1300. Same as CHEN 3200.

College of Engineering & Applied Science Engineering Administration

GEEN-3930 (6) Engineering Co-op

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program with a university, government agency, or industry. This course is offered only through Continuing Education and may be repeated up to 24 credit hours (four co-op terms). GPA higher than 2.75 is required. GPA higher than 3.00 is strongly recommended.

College of Engineering & Applied Science Engineering Administration

EHON-4051 (1) Dimensions of Leadership

Explores the many dimensions of leadership that exceed technical knowledge: the ethical, societal, cultural, interpersonal, and personal. Through seminars, workshops and exposure to leaders, students will reflect upon their engineering education in light of the multifaceted demands of effective leadership and their own personal career goals. Students will take an active role in shaping the course. Prereq., junior standing; honors standing or instructor consent. Repeatable for credit up to 3 credit hours.

College of Engineering & Applied Science | Engineering Administration

GEEN-4830 (3) Special Topics

May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering and Applied Science BS students or BS/MS Concurrent Degree Students only.

College of Engineering & Applied Science | Engineering Administration

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MCEN-1208 (1-4) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 1208-1298. Prereq., instructor consent. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Special Topics](#)

MCEN-3208 (1-3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 3208-3298. Instructor consent required. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Special Topics](#)

MCEN-4128 (3) Special Topics

Prereq., MCEN 4025 or equivalent.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Special Topics](#)

MCEN-4278 (3) Special Topics

Same as MCEN 5268.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-5248 (1-3) Special Topics

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-5898 (1-4) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848-5898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6228 (3) Special Topics

Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6278 (3) Special Topics

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6898 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-7208 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered MCEN 7208-7298.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-8999 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

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ECEN-1100 (1) Freshman Seminar

Introduces students to areas of emphasis with the ECE department through seminars presented by faculty and outside speakers. Emphasizes career opportunities, professional ethics and practices, history of the profession, and resources for academic success. Several sessions promote team building and problem solving, and provide opportunities for freshmen to meet their classmates. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

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GEEN-1100 (3) Social Impact of Technology

Introduces undergraduate students to the social impact of technology and how technology impacts all aspects of life, the health of planet Earth, and how people interact with each other. Fulfills Engineering social science requirements. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

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EHON-1151 (3) Critical Encounters

Explores critical, literary and philosophical approaches to the following related problems: 1) how we organize knowledge and construct meaning, and 2) how we locate a sense of self as both individuals and members of various groups amidst the resources and demands of competing interpretations, traditions challenges and circumstances. Prereq., honors standing or instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

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MCEN-1208 (1-4) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 1208-1298. Prereq., instructor consent. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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CHEN-1211 (3) General Chemistry for Engineers

Lect. a one-semester course designed to meet the general chemistry requirement for engineering students. Topics include stoichiometry; thermodynamics; gases, liquids, and solids; equilibrium; acids and bases; bonding concepts; kinetics; reactions; and materials science. Examples and problems illustrate the application of chemistry to engineering subdisciplines. Restricted to students with one year of high school chemistry or CHEM 1001 or 1021 (min. grade C-); and high school algebra. Not recommended for students with grades below B- in CHEM 1001 or 1021. Credit not granted for this course and CHEM 1111, 1113/1114, 1251, or 1351. Prerequisites: Requires co-requisite course of CHEM 1221. Restricted to College of Engineering Majors only.

[College of Engineering & Applied Science](#) [Chemical Engineering](#)

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CSCI-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as ATLS 1220.

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GEEN-1235 (4) Pre-Calculus for Engineers

Prepares students for the challenging content and pace of the calculus sequence required for all engineering majors. The course covers algebra, trigonometry and selected topics in analytical geometry. It prepares students for the calculus courses offered for engineering students. It requires students to engage in rigorous work sessions as they review topics that they must be comfortable with to pursue engineering course work. The course is structured to accustom students to the pace and culture of learning encountered in engineering math courses.

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CSCI-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as ATLS 1240.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

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CHEN-1300 (1) Introduction to Chemical Engineering

Meets for one lecture per week. Introduces chemical engineering emphasizing history of the profession, curriculum, chemical industry, and industrial chemistry. Includes industry visits, oral presentations, faculty and professional meetings, and development of a goals statement. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

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CSCI-1300 (4) Computer Science 1: Programming

Teaches techniques for writing computer programs in higher level programming languages to solve problems of interest in a range of application domains.

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GEEN-1300 (3) Introduction to Engineering Computing

Introduces the use of computers in engineering problem solving, including elementary numerical methods. Teaches programming fundamentals, including data and algorithm structure, and modular programming. Software vehicles include Excel/Vba and Matlab. Coreq., APPM 1350 or equivalent. Restricted to ENGR majors. Prerequisites: Restricted to College of Engineering majors only.

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CVEN-1317 (2) Introduction to Civil and Environmental Engineering

Surveys the broad subject of civil and environmental engineering and professional practice. Includes the subdisciplines of structures, water resources, geotechnics, transportation, environment, and construction. Discusses professional ethics, important skills for engineers, and the engineering design process as it fulfills multiple objectives.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Miscellaneous](#)

CVEN-3227 (3) Probability, Statistics and Decision

Introduces uncertainty based analysis concepts and applications in the planning and design of civil engineering systems emphasizing probabilistic, statistics, and design concepts and methods. Restricted to juniors/seniors.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Miscellaneous](#)

CVEN-4087 (3) Construction Contract Administration

Students will develop a working understanding of the various types of contracts, key contract provisions, how to evaluate contract risk, ethical requirements, and most importantly explore effective contract administration. Construction and engineering contracts are at the core of all project relationships. Through lecture, group dialog and case studies students will develop confidence in their ability to assess, understand and deploy contract administration in a construction setting. Prereq., senior standing in civil or architectural engineering or instructor consent.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Miscellaneous](#)

CVEN-4147 (3) Civil Engineering Systems

Theory and application of the principles of engineering economics, and classical and metaheuristic optimization techniques for evaluating problems in civil and environmental engineering. Same as CVEN 5147. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-4537 (3) Numerical Methods in Civil Engineering

Introduces the use of numerical methods in the solution of civil engineering problems, emphasizing obtaining solutions with high-speed electronic computers. Applies methods to all types of civil engineering problems. Prereq., senior standing. Same as CVEN 5537.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-4837 (1-3) Special Topics

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-5147 (3) Civil Engineering Systems

Same as CVEN 4147. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-5537 (3) Numerical Methods in Civil Engineering

Prereq., graduate standing. Same as CVEN 4537. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-5837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-5939 (3) Sustainable Community Development Field Practicum

Provides a supervised in-field practicum experience in which the student applies theories and concepts learned in Sustainable Community Development I and II (CVEN 5919 and 5929). Prereqs., CVEN 5919 and 5929 or instructor consent. Restricted to students with EDC sub-plan. Prerequisites: Restricted to students with EDC Sub-Plan.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

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AREN-1316 (2) Introduction to Architectural Engineering

Surveys the broad subject of architectural engineering and professional practices. Includes professional design services, design documents, methods of construction delivery, materials for construction, codes and standards, life safety, professional ethics, structural systems, mechanical systems, electrical systems, and building systems integration. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

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CVEN-1317 (2) Introduction to Civil and Environmental Engineering

Surveys the broad subject of civil and environmental engineering and professional practice. Includes the subdisciplines of structures, water resources, geotechnics, transportation, environment, and construction. Discusses professional ethics, important skills for engineers, and the engineering design process as it fulfills multiple objectives.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

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GEEN-1350 (1) Calculus 1 Work Group

Provides problem-solving assistance to students enrolled in APPM 1350. Student groups work in collaborative learning environment. Student participation is essential. Grading under pass/fail option only. Coreq., APPM 1350.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

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GEEN-1360 (1) Calculus 2 Work Group

Provides problem solving assistance for students enrolled in APPM 1360. Conducted in a collaborative learning environment. Student work groups solve calculus problems with assistance of facilitator. Grading under pass/fail option only. Prereq., APPM 1350. Coreq., APPM 1360.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

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ASEN-1400 (3) Gateway to Space

Introduces the basics of atmosphere and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Formerly ASEN 2500. Same as ASTR 2500. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Aerospace Design & System Engr](#)

University of Colorado Boulder

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ECEN-1400 (3) Introduction to Digital and Analog Electronics

Introduces fundamental concepts in electrical and computer engineering such as Ohm's Law, capacitors, Leds and 7-segment displays, transformers and rectifiers, digital logic, Fourier decomposition, frequency analysis. Lab work exposes students to commonly used instrumentation. Includes a final project. Skills in wiring, soldering and wire-wrapping are developed. Coreq., APPM 1350.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

GEEN-1400 (3) Engineering Projects

First-year engineering students work to solve real engineering design problems in interdisciplinary teams. Completed projects are exhibited at an end-of-semester design expo. In lieu of a textbook (available online), each student is expected to contribute up to \$75 towards their design project and poster, and purchase his/her own pair of safety glasses. Restricted to Engineering majors with 75 or fewer cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

[College of Engineering & Applied Science](#)
[Engineering Administration](#)

GEEN-1410 (3) Social Innovation and Design for Sustainable Communities

Learn to apply principles of sustainability to designs. Student teams design solutions integrating scientific and social science perspectives. Emphasis is on the design process applied to sustainable solutions to real world problems. Restricted to students in the Williams Village North RAPs. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

[College of Engineering & Applied Science](#)
[Engineering Administration](#)

ECEN-1500 (3) Sustainable Energy

Explores how energy is created and used in today's society. Through collaborative discussion and hands-on data collection, students will analyze the engineering challenges, fundamental limits, and potential solutions to meeting our energy needs sustainably. Students will learn to analyze numerical data, estimate orders of magnitude, and apply mathematical methods in their own lives and in the ongoing energy debate. Basic algebra required. Restricted to non-engineering majors. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Engineering & Applied Science Electrical & Computer Engineering General

EHON-1500 (1) Honors Reading Group

Faculty led reading seminars, focusing on specific text or texts chosen by the faculty. Special attention will be paid to group formation and the process of collaborative learning. Restricted to Engineering Honors Program (PHEN) students only or instructor consent required. Prerequisites: Restricted to Engineering Honors Program (PEHN) students only.

College of Engineering & Applied Science Engineering Administration

GEEN-1500 (2) Introduction to Engineering

Provides an introduction to the engineering profession, to include a focus on the engineering grand challenges of the future, professional and ethical expectations, and an examination of current disciplines specializations. Provides sufficient knowledge of the engineering disciplines necessary to make an informed major choice. Restricted to Engineering Majors with 75 or less cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

College of Engineering & Applied Science Engineering Administration

GEEN-1510 (1) Self Management and Leadership Principles 1

Develops group cohesiveness, mutual support, multicultural awareness, and leadership skills. Topics include collaborative learning, motivation, time management and study skills, personal assertiveness, and career awareness. Open to new freshmen and transfer students. Controlled enrollment. Fulfills one credit hour of the Engineering social science requirement. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Engineering Administration

GEEN-1520 (1) Self Management and Leadership Principles 2

Continuation of GEEN 1510. Controlled enrollment. Prereq., GEEN 1510. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Engineering Administration

GEEN-1550 (1) YOU'RE@CU: Undergraduate Career Seminar

Exposes first or second year undergraduate students to engineering research careers through a partner program (YOU'RE@CU), panel discussions with researchers in academics and industry, and exposure to research labs. Restricted to YOU'RE@CU participants. Restricted enrollment; offered pass/fail only.

College of Engineering & Applied Science Engineering Administration

ECEN-1840 (1-6) Independent Study

Provides an opportunity for freshmen to do independent, creative work. Numbered ECEN 1840 through ECEN 1849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

HUEN-1843 (3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Engineering majors only.

College of Engineering & Applied Science | Humanities for Engineers

HUEN-1850 (3) Engineering in History: The Social Impact of Technology

Explores how engineering has shaped who we are, how we think, and what we think about, by examining preconceived notions of progress, property, time, and work. Textbook readings plus original sources in philosophy, literature, psychology, and economics provide a rich and stimulating tour of engineering history. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

College of Engineering & Applied Science | Humanities for Engineers

ASEN-2001 (4) Aerospace 1: Introduction to Statics, Structures, and Materials

Introduces models and analytical/numerical methods for statics and structural analysis. Topics include force/moment equilibrium, truss analysis, beam theory, stress/strain, failure criteria, and structural design. Matlab proficiency required. Prereqs., APPM 1360, GEEN 1300 or CSCI 1300 or ECEN 1030 and PHYS 1110 (min. grade C). Coreq., ASEN 2002, 2012 or APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-2002 (4) Aerospace 2: Introduction to Thermodynamics and Aerodynamics

Introduces the fundamental principals and concepts of thermodynamics and fluid dynamic systems. Emphasizes the synthesis of basic science (physics), mathematics, and experimental methods that form the basis for quantitative and qualitative analyses of general aerospace technology systems. Proficiency in Matlab required. Prereqs., APPM 1360, GEEN 1300, CSCI 1300, or ECEN 1030 and PHYS 1110 (min. grade C). Coreqs., ASEN 2001, 2012 and APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-2003 (5) Aerospace 3: Introduction to Dynamics and Systems

Introduces the principles of particle and planar rigid body dynamics, systems, and controls. Topics include kinematics, kinetics, momentum and energy methods, system modeling, and simple feedback control. Class includes experimental and design laboratory exercises for aerospace applications of dynamic principles. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, ASEN 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2004. Restricted to Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Systems and Control |
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ASEN-2004 (5) Aerospace 4: Aerospace Vehicle Design and Performance

Introduction to design and analysis of aircraft and spacecraft. Aircraft topics include cruise performance, wing design, propulsion, stability, control, and structures. Spacecraft topics include rocket staging, orbit selection, launch systems, and spacecraft subsystems. Includes laboratory experiments and team design exercises. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, 2002, 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2003. Restricted to Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ECEN-2010 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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HUEN-2010 (3) Tradition and Identity

Explores the place and possibility of personal identity both within and against the influence of tradition, including family, culture, language, and social, political and economic institutions. Via literature and film, wrestles with the nature of freedom, self-determination, and belonging. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Humanities for Engineers |
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ASEN-2012 (2) Experimental and Computational Methods in Aerospace Engineering Sciences

Introduces statistical, experimental, and computational methods used in aerospace engineering sciences. Usage of MatLab is extensive. Coreq., ASEN 2001 and 2002. Prereq., GEEN 1300 or CSCI 1300 or ECEN 1030 (min. grade C). Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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CVEN-2012 (3) Introduction to Geomatics

Observes, analyzes, and presents basic linear, angular, area, and volume field measurements common to civil engineering endeavors with application of GPS and GIS technology. Prereq., APPM 1350 or equivalent. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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| College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation |
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ECEN-2020 (1-5) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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HUEN-2020 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

MCEN-2023 (3) Statics and Structures

Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., APPM 1360. Prerequisites: Requires prerequisite course of APPM 1360 or MATH 2300. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or Civil & Envrn Engr Concurrent Degree majors or Mechanical Engr Concurrent Degree majors.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-2024 (3) Materials Science

Structure, properties, and processing of metallic, polymeric, ceramic, and composite materials. Perfect and imperfect solids; phase equilibria; transformation kinetics; mechanical behavior; material degradation. Approach incorporates both materials science and materials engineering components. Prereqs., CHEN 1211, CHEM 1221 and PHYS 1110. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors or Civil & Environmental Engineering Concurrent Degree or Mechanical Engineering Concurrent Degree majors

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-2043 (3) Dynamics

Covers dynamic behavior of particle systems and rigid bodies; 2-D and 3-D kinematics and kinetics; impulse, momentum, potential, and kinetic energy; and work, collision, and vibration. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., MCEN 2023. Formerly MCEN 3043. Prerequisites: Requires prerequisite courses of MCEN 2023 (or CVEN 2121 or GEEN 3851). Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

College of Engineering & Applied Science Mechanical Engineering Solids

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AREN-2050 (3) Engineering Systems for Buildings

Provides an overview of the building mechanical and electrical systems, including HVAC, plumbing, solar, power distribution, illumination, life safety, transportation, and noise control systems. Emphasizes sustainable (green) building practices. Includes a team investigation of existing commercial building. Prereqs., AREN 1027 and 2406. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems Engineering](#)

ECEN-2050 (1-5) Special Topics

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

GEEN-2050 (3) Engineering Leadership Gateway

Examines concepts of engineering leadership and the essential skills required to become an effective leader. Together students will explore leadership principles, creative and critical thinking, interpersonal skills (e.g. collaboration, conflict resolution, leading in diverse communities), intrapersonal development (e.g. self-appraisal, reflective practice, personal leadership philosophy), organizational competencies (e.g. planning, sustainability, climate), effective communication and ethical decision-making. Instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Engineering Administration](#)

ECEN-2060 (1-5) Special Topics

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

MCEN-2063 (3) Mechanics of Solids

Covers shear force and bending moment, torsion, stresses in beams, deflection of beams, matrix analysis of frame structures, analysis of stress and strain in 2-D and 3-D (field equations, transformations), energy methods, stress concentrations, and columns. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Credit not granted for this course and CVEN 3161. Prerequisites: Requires prerequisite courses of MCEN 2023 or CVEN 2121 or GEEN 3851. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

College of Engineering & Applied Science | Mechanical Engineering | Solids

HUEN-2100 (3) History of Science and Technology to Newton

Spans invention and discovery from the Stone Age to the age of Newton, raising questions about culture, history, and personal expectation; studies Pyramids, odometers, cathedrals, Galileo, etc., on the way. Formerly HUEN 1100. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Humanities for Engineers

AREN-2110 (3) Thermodynamics

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Computing in the context of engineering problems is introduced. Prereq., PHYS 1110 or equivalent. Coreq., APPM 1360 or equivalent. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Architectural (AREN), Civil (CVEN), or Environmental (EVEN) Engineering majors or Civil/Environmental (C-EVENCVEN) Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-2120 (3) Fluid Mechanics and Heat Transfer

Explores fundamental principles of fluid dynamics and heat transfer. Topics include fluid statics, momentum, and energy conservation, laminar and turbulent viscous flow, convection heat transfer, conduction heat transfer, heat exchangers, and heat transfer. Prereqs., APPM 2350 and AREN 2110. Coreq., APPM 2360.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CHEN-2120 (3) Chemical Engineering Material and Energy Balances

Provides a basic understanding of chemical engineering calculations involving material and energy balances around simple chemical processes. Prerequisites: Requires pre-requisite courses of CHEN 1211 and GEEN 1300 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

HUEN-2120 (3) History of Modern Science from Newton to Einstein

Surveys the great discoveries and theoretical disputes from Newtonian celestial mechanics to the theory of relativity. Includes physics, astronomy, chemistry, geology, and biology; closely examines scientific method, evolution, light and quantum theory. Uses original sources by Newton, Faraday, Lavoisier, Darwin, etc., for immediate contact with the great minds in science. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

CVEN-2121 (3) Analytical Mechanics 1

Covers forces acting on rigid bodies at rest. Equilibrium is the central concept that will be applied repeatedly to different situations. In each case, the object of interest will be isolated along with all the forces acting on it; a free body diagram. Equilibrium will be applied to analyze trusses, frames, machines, cables and hydrostatic forces on dams. Prereq., PHYS 1110. Prereq. or coreq., APPM 2350. Same as GEEN 3851. Restricted to freshmen or sophomore Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Mechanics

HUEN-2130 (3) History of Modern Technology from 1750 to the Atomic Bomb

Surveys the great innovations from the Steam Age to the Atomic Age: transportation, modern construction, communications, internal combustion, etc. Supplements textbook accounts with drawings, patents, and original selections by Edison, Carnegie, Tesla, Bell, etc. Studies the sociological impact of social change via contemporary sources in literature, philosophy, painting and film. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2210 (3) Engineering, Science, and Society

Explores challenges that engineering and science pose for society plus the ways that societies shape or impede science and engineering. Case studies range from contemporary issues (global warming, nuclear weapons, and genetic engineering) to classic cases (the execution of Socrates). Core texts in the Western Tradition supplement contemporary articles and films. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

ECEN-2250 (3) Introduction to Circuits and Electronics

Introduces linear circuit analysis and design, including extensive use of OP amps. Presents DC networks, including node and mesh analysis with controlled sources. Analysis of RL and RC circuits for both transient and sinusoidal steady-state responses using phasors. Prereq., APPM 1360. Coreq., APPM 2360. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-2260 (3) Circuits as Systems

Continues basic circuit analysis of ECEN 2250: Laplace transform techniques, transfer functions, frequency response, Bode diagrams, resonant circuits, Fourier series expansions, and convolution. Prereq., ECEN 2250. Coreq., Electronics Design Laboratory. Prerequisites: Requires pre-requisite course of ECEN 2250 (minimum grade C-). Restricted to College of Engineering students only.

College of Engineering & Applied Science Electrical & Computer Engineering General

CSCI-2270 (4) Computer Science 2: Data Structures

Studies data abstractions (e.g., stacks, queues, lists, trees) and their representation techniques (e.g., linking, arrays). Introduces concepts used in algorithm design and analysis including criteria for selecting data structures to fit their applications. Prereqs., CSCI 1300, and one of APPM 1350 or MATH 1300. Prerequisites: Requires pre-requisite courses of CSCI 1300 and either APPM 1350 or MATH 1300 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | General Computer Science

ECEN-2270 (3) Electronics Design Lab

Provides an introduction to analysis, modeling, design, and testing of analog electronic circuits in a practical laboratory setting. The laboratory is centered around a robot platform and includes design, Spice simulations, prototyping and testing of circuits necessary to drive and remote control the robot. Coreq., ECEN 2260. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2350 (3) Digital Logic

Covers the design and applications of digital logic circuits, including combinational and sequential logic circuits. Laboratory component introduces simulation and synthesis software and hands-on hardware design. Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only. Prereq., ECEN 1030 or CSCI 1300. Prerequisites: Requires pre-requisite course of ECEN 1030 or CSCI 1300 (minimum grade C-). Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

GEEN-2350 (1) Calculus 3 Work Group

Provides problem solving assistance to students enrolled in APPM 2350. This course is conducted in a collaborative learning environment. Student work groups solve calculus problems with the assistance of a facilitator. Grading only under pass/fail option. Prereq., APPM 1360. Coreq., APPM 2350.

College of Engineering & Applied Science | Engineering Administration

CSCI-2400 (4) Computer Systems

Covers how programs are represented and executed by modern computers, including low-level machine representations of programs and data, an understanding of how computer components influence performance and memory hierarchy. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | General Computer Science

AREN-2406 (3) Introduction to Building Construction

Covers the broad subject of building materials, assembly details, and their method of construction. Includes codes and classifications, foundations, wood, steel, concrete, masonry, cladding,

doors and windows, interiors, and finishes. Formerly AREN 3406. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Architectural Engineering (AREN) majors only.

College of Engineering & Applied Science Civil Engineering Construction

ECEN-2420 (3) Electronics for Wireless Systems

Explores fundamental principles behind the operation of a radio, including a practical introduction to circuit elements. The course covers the components and operation of a radio (transmitter and receiver) with simple signals. Students learn through demos the practical basic properties of all needed components with an introduction to principles of operation. Prereqs., PHYS 1120, and APPM 1360 or MATH 2300. Restricted to EN majors. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering General

ASEN-2519 (1-6) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the lower-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Restricted to Engineering students.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ECEN-2703 (3) Discrete Mathematics for Computer Engineers

Emphasizes elements of discrete mathematics appropriate for computer engineering. Topics: logic, proof techniques, algorithms, complexity, relations, and graph theory. Prereqs., ECEN 1030/CSCI 1300 and APPM 1360.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

SUST-2800 (1-3) Special Topics

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

College of Engineering & Applied Science Sustainability by Design RAP

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Courses

Search by College, Department & Category

College/School

Department

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Number

CHEN-2810 (3) Biology for Engineers

Develops a basic understanding of the science of biology, including an introduction to the disciplines of biochemistry, cell organization, metabolism, genetics, genomics, molecular biology, recombinant DNA technology and evolution. Provides a basic introduction to several key techniques used in biological engineering laboratories. Uses examples of complex and creative structures engineered by natural processes.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

CSCI-2824 (3) Discrete Structures

Covers foundational materials for computer science that is often assumed in advanced courses. Topics include set theory, Boolean algebra, functions and relations, graphs, propositional and predicate calculus, proofs, mathematical induction, recurrence relations, combinatorics, discrete probability. Focuses on examples based on diverse applications of computer science. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

[College of Engineering & Applied Science](#)
[Computer Science](#)
[Theory of Computation](#)

AREN-2830 (1-3) Special Topics

Supervised study of special topics of interest to students under instructor guidance. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Special Topics](#)

CSCI-2830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the sophomore level. Content varies from semester to semester.

College of Engineering & Applied Science | Computer Science | General Computer Science

ECEN-2830 (1-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

CHEN-2840 (1-4) Independent Study

Available to sophomores with approval of Department of Chemical Engineering. Subject arranged to fit needs of student.

College of Engineering & Applied Science | Chemical Engineering

ECEN-2840 (1-6) Independent Study

Offers an opportunity for sophomores to do independent, creative work. Numbered ECEN 2840 through ECEN 2849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

EVEN-2840 (1-3) Independent Study: General Topics

General topics relating to environmental engineering. One-on-one assistance with an instructor.

College of Engineering & Applied Science | Environmental Engineering

HUEN-2843 (1-3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Humanities for Engineers

ASEN-2849 (1-3) Independent Study

Study of special projects agreed upon by student and instructor. May be repeated up to 9 total credit hours. Prereq., instructor consent.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CSCI-2900 (1-3) Lower Division, Undergraduate Level Independent Study

Offers selected topics at the elementary level for students with little or no previous computing experience.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-3002 (3) Human-Centered Computing Foundations

Introduces practice and research in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

ECEN-3002 (3-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-3003 (3-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-3004 (3-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

AREN-3010 (3) Mechanical Systems for Buildings

Lecture course on the analysis and design of buildings and their systems to satisfy the requirements for a comfortable and healthy indoor environment. Examines psychometrics, thermal comfort, building heating and cooling loads, fluid flow basics, and HVAC components and systems. Prereqs., AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852, or MCEN 3012, or ASEN 2002) and AREN 2050. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite courses of AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852 or MCEN 3012 or ASEN 2002) and AREN 2050. Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CHEN-3010 (3) Applied Data Analysis

Teaches students to analyze and interpret data. Topics include engineering measurements, graphical presentation and numerical treatment of data, statistical inference, and regression analysis.

Prerequisites: Requires pre-requisite course of GEEN 1300.

College of Engineering & Applied Science | Chemical Engineering

ECEN-3010 (3) Circuits and Electronics for Mechanical Engineers

Covers analysis of electrical circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Includes introductory digital electronics and microprocessors/microcontrollers. Prereqs., APPM 2360 and PHYS 1140. Same as MCEN 3017. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

MCEN-3012 (3) Thermodynamics

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as GEEN 3852. Prerequisites: Requires prerequisite course of APPM 2350 or MATH 2400. Restricted to students with 57-180 credits (Junior/Senior) MCEN or EVEN majors or concurrent degree majors in CVEN/EVEN or MCEN.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

MCEN-3017 (3) Circuits and Electronics

Introductory course covers analysis of electric circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Prereqs., APPM 2360 and PHYS 1140. Same as ECEN 3010. Prerequisites: Restricted to students in the MSC/CU-Boulder Mechanical Engineering Partnership Program only.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-3021 (3) Fluid Mechanics

Examines fundamentals of fluid flow with application to engineering problems. Explores fluid statics and kinematics; conservation equations for mass, momentum, and energy; Bernoulli and Euler equations; potential flow; laminar and turbulent viscous boundary layers; laminar and turbulent pipe flow; and compressible fluid flow. Prereqs., APPM 2360 and MCEN 2023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN or MCMR) or Environmental Engineering (EVEN) majors or Civil/Environmental Engineering or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

CVEN-3022 (3) Construction Surveying

Studies construction and highway surveying, horizontal and vertical curves, earthwork, and analysis of data. Prereq., CVEN 2012.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

MCEN-3022 (3) Heat Transfer

Studies fundamentals of heat transfer by conduction, convection, and radiation. Provides applications to heat exchangers, solar panels, and boiling and mass transfer. Also covers numerical methods for solving heat transfer problems and design of engineering equipment involving heat transfer processes. Prerequisites: Requires prereq courses of MCEN 3012 (or GEEN 3852, or CHEN 3320, or ASEN 2002, or AREN 2110) & MCEN 3021 (or GEEN 3853, or CHEN 3200, or CVEN 3313) & MCEN 3030. Restricted to students w/ 57-180 credits (Jr or Sr) MCEN or EVEN majors.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-3025 (3) Component Design

Application of mechanics and materials science to the detailed design of various machine elements including shafts bearings, gears, brakes, springs, and fasteners. Emphasizes application and open-ended design problems. Prereq., MCEN 2063. Prerequisites: Requires pre-requisite course of MCEN 2063 (or CVEN 3161, or ASEN 3112).

College of Engineering & Applied Science Mechanical Engineering Design

ECEN-3030 (3) Electrical/Electronic Circuits Non-Major

For students not majoring in electrical engineering. Covers analysis of electric circuits by use of Ohm's law; network reduction; super position; node and loop analysis; Thevenin's and Norton's theorems; sinusoidal signals; phasors; power in ac circuits; transient response of simple circuits; operational amplifiers; logic circuits; and flip-flops. Prereq., APPM 2360. Restricted to nonmajors. Same as GEEN 3854. Prerequisites: Electrical/Computer Engineering Majors, Electrical Engineering Majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree Majors are restricted from taking this course.

College of Engineering & Applied Science Electrical & Computer Engineering General

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Courses

Search by College, Department & Category

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MCEN-3030 (3) Computational Methods

Studies fundamental numerical techniques for the solution of commonly encountered engineering problems. Includes methods for linear and nonlinear algebraic equations, data analysis, numerical differentiation and integration, ordinary and partial differential equations. Prereqs., GEEN 1300 and APPM 2360, or equivalent, including a working knowledge of Matlab. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, Mechanical (MCEN or MCMR) or Environmental Engineering (EVEN) or Mechanical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Math](#)

CVEN-3032 (3) Photogrammetry

Familiarizes students with characteristics of aerial photographs. Measures and interprets aerial photos for planimetric, topographic, hydrological, soil, and land use surveys. Analyzes and presents field measurements over extensive reaches. Prereq., instructor consent.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Surveying and Transportation](#)

MCEN-3032 (3) Thermodynamics 2

Offers advanced topics and applications, including thermodynamics of state, entropy and probability, thermodynamic cycles, and reacting and nonreacting mixtures. Provides application to engines and power generation by conventional and alternative energy technologies. Most assignments are design oriented. Prereqs., MCEN 3012 and 3021. Prerequisites: Requires prerequisite course of MCEN 3021 (or CHEN 3200 or CVEN 3313 or GEEN 3853) and MCEN 3012 (or AREN 2110 or GEEN 3852). Restricted to students with 57-180 credits (Junior/Senior) Mechanical Engineering or Environmental Engineering majors only.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Thermal](#)

ASEN-3036 (3) Introduction to Human Spaceflight

Introduces students to the challenges of human space flight. Historical and current space programs and spacecraft are discussed with emphasis on those systems specific to sustaining human crews. Other topics include space environment with respect to sustaining human life and health, physiological and psychological concerns in a space habitat, astronaut selection and training, anomalies, mission operations motivation, costs rationale for human space exploration, and future program directions. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

MCEN-3037 (2) Data Analysis

Learn to plan and carry out experiments. Coverage includes measurement fundamentals, basic statistical concepts, and uncertainty analysis. Use of statistics for the purpose of analyzing data, including regression, correlation, hypothesis testing, classification, time series analysis, and design of experiments. Prereq., APPM 2360. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

ASEN-3046 (3) Introduction to Humans in Aviation

Investigates the history of manned aviation accomplished through a review of the history of flight, the physiological and psychological limitations facing aviators, and investigates the human related causal factors in aviation accidents. The course also looks at the social and economic impacts of aviation in modern society. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

AREN-3050 (3) Environmental Systems for Buildings 1

Introduces the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-3060 (3) Environmental Systems for Buildings 2

Continues the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

ECEN-3070 (3) Edges of Science

Examines the evidence for paranormal phenomena, reasons for skepticism, and physical models that could account for the data. Reviews controversial scientific theories that overcame barriers to

acceptance, and how worldviews shift. Considers the scientific method and ways uncontrolled factors might influence experiments. Develops skills in statistical analysis of data. Includes group projects testing for anomalous and parapsychological effects. Not accepted as a technical elective for engineering majors. Prereq., MATH 1011 or equivalent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

HUEN-3100 (3) Humanities for Engineers 1

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering & Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Humanities for Engineers

CSCI-3104 (4) Algorithms

Covers advanced data structures, computational geometry, cryptography, dynamic programming, greedy algorithms, divide-and-conquer, graph algorithms (e.g., depth-first search), network algorithms (e.g., shortest paths), approximation algorithms. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Theory of Computation

ASEN-3111 (4) Aerodynamics

Develops the fundamental concepts of aerodynamics and provides a working knowledge for their application to the design of aircraft and launch vehicles operating at various speeds and altitudes, as well as the atmospheric forces on satellites. Prereqs., APPM 2350, ASEN 2002 and 2004 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

CVEN-3111 (3) Analytical Mechanics 2

Studies the motion (kinematics) of particles and rigid bodies, and the forces that cause the motion (kinetics). Newton's laws as well as energy methods are used to study the motion of particles and rigid bodies in two and three dimensions. Prerequisites: Requires pre-requisite courses of CVEN 2121. Requires a co-requisite course of APPM 2360.

College of Engineering & Applied Science | Civil Engineering | Mechanics

ASEN-3112 (4) Structures

Teaches Mechanics of Materials methods of stress and deformation analysis applicable to the design and verification of aircraft and space structures. It offers an introduction to matrix and finite element methods for truss structures, and to mechanical vibrations. Prereq., ASEN 2001, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

CSCI-3112 (1-3) Human-Centered Computing Professional Development

Supports students in developing professional skills and practices in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as ATLS 3112.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

ASEN-3113 (4) Thermodynamics and Heat Transfer

Focuses on the applications of the first and second laws of thermodynamics to control volumes and teaches the fundamental concepts of different modes of energy and heat transfer. Learn to use these concepts in gas dynamics, high-speed vehicle spacecraft design, environmental systems, and energy analysis. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN 2002 and APPM 2350 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ASEN-3116 (3) Introduction to Biomedical Engineering

Addresses human responses to environment and physical stimuli. Makes use of engineering and physical principles in the study of human dynamics, arriving at reasonable solutions to 15 major areas of biomedical consent. Prereq., instructor consent.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-3128 (4) Aircraft Dynamics

Develops the fundamental concepts of aircraft dynamics. Covers flight mechanics, performance, dynamics and control of aircraft, and how they impact aircraft design. Prereqs., ASEN 2002, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2002, 2003, 2004 & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

AREN-3130 (3) Building Energy Laboratory

Laboratory course offering both hands-on experience with building and renewable energy systems and exposing students to the fundamentals of measurements, instrumentation, data acquisition, and statistical data analysis. Measurements and experiments will allow evaluation of building construction material, electrical equipment, lighting systems, heating and cooling systems, and solar energy devices, among others. Prereq., AREN 3010.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CHEN-3130 (2) Chemical Engineering Laboratory 1

One four-hour lab session per week. Investigates chemical engineering fluid flow, heat transfer, and thermodynamics. Emphasizes communication by written reports and oral presentations as well

as laboratory safety. Prereq., CHEN 3010, 3200, 3320 and either CHEN 3210 or MCEN 3022 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3010 and CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320 and CHEN 3210 (or MCEN 3022).

College of Engineering & Applied Science | Chemical Engineering

AREN-3140 (3) Illumination Laboratory

Introduces the measurement of photometric and psychophysical quantities used in lighting. Experience is acquired in using light measurement instruments to evaluate lighting equipment and luminous environments. Prereq., AREN 3540.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CSCI-3155 (4) Principles of Programming Languages

Study fundamental concepts on which programming of languages are based, and execution models supporting them. Topics include values, variables, bindings, type systems, control structures, exceptions, concurrency, and modularity. Learn how to select a language and to adapt to a new language. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Programming Languages

CVEN-3161 (3) Mechanics of Materials 1

Addresses concepts of stress and strain; material properties, axial loading, torsion, simple bending, and transverse shear; analysis of stress and strain; and deflections of beams. Includes selected experimental and computational laboratories. Prereq., CVEN 2121. Coreq., APPM 2360. Restricted to Architectural or Civil Engineering majors only. Credit not granted for this course and MCEN 2063. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

ECEN-3170 (3) Energy Conversion 1

Introduces block diagrams, conventional/renewable energy sources, power electronics, magnetic circuits, transformers and power systems, forces/torques of electric machines. Employs a top-down approach to present applications first and then discuss components. Uses Pspice, Mathematica, Matlab. Prereq., PHYS 1120. Coreq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ASEN-3200 (4) Orbital Mechanics/Attitude Dynamics and Control

Presents the fundamentals of orbital mechanics, 3D rigid body dynamics, and satellite attitude dynamics and controls. Prereqs., ASEN 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, ASEN 2004, & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

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Courses

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CHEN-3200 (3) Chemical Engineering Fluid Mechanics

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to chemical engineering systems. Prereqs., APPM 2350 and either CHEN 2120 (min. grade C) or MCEN 2023 (min. grade C). Coreq., APPM 2360. Same as GEEN 3853.

[College of Engineering & Applied Science](#) [Chemical Engineering](#)

HUEN-3200 (3) Humanities for Engineers 2

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering and Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Requires pre-requisite course of HUEN 3100. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

CSCI-3202 (3) Introduction to Artificial Intelligence

Surveys artificial intelligence techniques of search, knowledge representation and reasoning, probabilistic inference, machine learning, and natural language processing. Introduces artificial intelligence programming. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

MCEN-3208 (1-3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 3208-3298. Instructor consent required. Prerequisites: Restricted to Mechanical (MCEN or

MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

CHEN-3210 (3) Chemical Engineering Heat Transfer

Examines conservation and transfer of thermal energy. Focuses on conduction and convection of heat in the context of chemical processes, with a special focus on heat exchangers. Also studies thermal radiation. Prerequisites: Requires pre-requisite courses of either CHEN 3200 or MCEN 3021 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-3220 (3) Chemical Engineering Separations and Mass Transfer

Studies separation methods including distillation, absorption, and extraction, and graphical and computer-based solutions to separation problems. Also studies mass transfer rate processes, including diffusion, microscopic material balances, and correlations for mass transfer coefficients. Applies mass transfer rate theory to packed and tray columns. Prerequisites: Requires pre-requisite courses of CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320.

College of Engineering & Applied Science | Chemical Engineering

CVEN-3227 (3) Probability, Statistics and Decision

Introduces uncertainty based analysis concepts and applications in the planning and design of civil engineering systems emphasizing probabilistic, statistics, and design concepts and methods. Restricted to juniors/seniors.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-3246 (3) Introduction to Construction

Broad view of concerns, activities, and objectives of people involved in construction: the owner, architect/engineer, contractor, labor, and inspector. Interactive gaming situation relates these people to the construction contract, plans/specifications, estimates/bids, scheduling, law, and financial management. Restricted to junior or senior Civil or Architectural Engineering majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN) or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

ECEN-3250 (3) Microelectronics

Develops a basic understanding of active semiconductor devices. Focuses on building an understanding of BJT and CMOS devices in both digital and analog application. Prereq., ECEN 2260. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

CVEN-3256 (3) Construction Equipment and Methods

Integrated study of construction equipment, methods, and economics. Topics include equipment productivity, equipment selection, and construction engineering design within economic constraints. Examples include earthmoving, concrete formwork, and temporary construction. Recommended prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Construction

CSCI-3287 (3) Database and Information Systems

Surveys data management, including file systems, database management systems design, physical data organizations, data models, query languages, concurrency, and database protection. Prereq., CSCI 3104. Prerequisites: CSCI 3287 PREREQ

College of Engineering & Applied Science Computer Science Database Systems

ASEN-3300 (4) Aerospace Electronics and Communications

Provides the fundamentals of electronics and communications widely used in aerospace engineering. Includes analog instrumentation electronics, data acquisition, digital electronics, and radio communication. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, PHYS 1120 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ECEN-3300 (3) Linear Systems

Characterization of linear and time-invariant systems in time and frequency domains. Continuous time systems are analyzed using differential equations and Laplace and Fourier transforms. Discrete time systems, which can be implemented using a modern digital signal processing framework, use difference equations, z-transforms and discrete time Fourier transforms for their analysis and design. Applications of linear systems include communications, signal processing, and control systems. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Electrical & Computer Engineering General

CSCI-3302 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

College of Engineering & Applied Science Computer Science Artificial Intelligence

ECEN-3303 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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CSCI-3308 (3) Software Engineering Methods and Tools

Focuses on software engineering methods and tools for application development, including design and system organization; using and creating reusable libraries; building, testing, and debugging; and performance evaluation. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

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| College of Engineering & Applied Science | Computer Science | Software Engineering |
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CVEN-3313 (3) Theoretical Fluid Mechanics

Basic principles of fluid mechanics. Covers fluid properties, hydrostatics, fluid flow concepts, including continuity, energy, momentum, dimensional analysis and similitude, and flow in closed conduits. Prereq., CVEN 2121. Prerequisites: Requires pre-requisite course of CVEN 2121 (or GEEN 3851, or ASEN 2001, or MCEN 2023).

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| College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour |
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CHEN-3320 (3) Chemical Engineering Thermodynamics

Applies thermodynamic principles to nonideal systems, phase equilibrium, chemical equilibrium, power generation, refrigeration, and chemical processes. Prereqs., CHEN 2120 (min. grade C) and either CHEM 4511 or 4521 (min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 2120 and either CHEM 4511 or 4521 (all min grade C-).

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| College of Engineering & Applied Science | Chemical Engineering |
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ECEN-3320 (3) Semiconductor Devices

Highlights the fundamentals of semiconductor materials and devices. Topics include the electrical and optical properties of semiconductors, the theory of Pn junctions, bipolar and field-effect transistors, and optoelectronic devices. Prereq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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CVEN-3323 (3) Hydraulic Engineering

Studies hydraulic engineering theory and applications. Topics include incompressible flow in conduits, pipe system analysis and design, open channel flow, flow measurement, analysis and design of hydraulic machinery. Prereq., CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (ARCH) Engineering majors only.

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| College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour |
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ECEN-3350 (3) Programming Digital Systems

Covers computer usage in system implementation, central processor capabilities, and managing concurrency. Includes computer architecture, instruction sets, programming, input/output, interrupts, block transfers, semaphores, shared procedures, multiple processors, and memory management. Prereq., ECEN 2350. Formerly ECEN 2120. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3400 (3) Electromagnetic Fields and Waves

Electromagnetic fields are covered at an introductory level, starting with electrostatics and continuing with DC current, magnetostatics, time-varying magnetic fields, waves on transmission lines, Maxwell's equations and the basics of plane waves. The use of fields in inductors, capacitors, resistors, transformers, and energy and power concepts are studied. Prereqs., APPM 2350, PHYS 1110, and ECEN 2250. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

GEEN-3400 (3) Invention and Innovation

Introduction to invention and product innovation with a hands-on approach. Students explore the invention process, hone their engineering design skills, and explore entrepreneurship (patenting, intellectual property, marketing, raising capital). Student teams design, create, and test a potentially commercial product, and exhibit at an end-of-semester design expo. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Engineering Administration

ECEN-3410 (3) Electromagnetic Waves and Transmission

Covers reflected and transmitted plane waves in layered media, Poynting's theorem of electromagnetic power, two-conductor transmission line theory and practice, Smith chart usage and impedance matching, and elements of antenna theory. Prereq., ECEN 3400. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science | Electrical & Computer Engineering | General

CVEN-3414 (3) Fundamentals of Environmental Engineering

Emphasizes chemical, ecological, and hydrological fundamentals and importance of mass and energy balances in solving environmental engineering problems related to water quality, water and wastewater treatment, air pollution, solid and hazardous waste management, sustainability, and risk assessment. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 1360 (or MATH 2300). Restricted to Civil, Architectural, Environmental, Mechanical or Chemical Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Environmental

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CVEN-3424 (3) Water and Wastewater Treatment

Introduces design and operation of facilities for treatment of municipal water supplies and wastewater. Provides an engineering application of physical, chemical, and biological unit processes and operations for removal of impurities and pollutants. Involves an integrated design of whole treatment systems combining process elements. Prereq., CVEN 3414. Prerequisites: Requires pre-requisite course of CVEN 3414 (min grade C-).

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Environmental](#)

CSCI-3434 (3) Theory of Computation

Introduces the foundations of formal language theory, computability, and complexity. Shows relationship between automata and various classes of languages. Addresses the issue of which problems can be solved by computational means, and studies complexity of solutions. Prereq., CSCI 3104 and 3155. Prerequisites: Requires pre-requisite courses of CSCI 3104 and CSCI 3155 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Theory of Computation](#)

CVEN-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Same as ENVS 3434. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351). Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN), Environmental (EVEN) or Architectural Engineering (AREN) majors.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Environmental](#)

ASEN-3519 (1-4) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

CVEN-3525 (3) Structural Analysis

Studies structural analysis of statically determinate and indeterminate systems, deflections, energy methods, and force method. Prereq., CVEN 3161 or MCEN 2063. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Structures

AREN-3540 (3) Illumination I

Studies the fundamentals of architectural illumination. Introduces and applies basic principles and vocabulary to elementary problems in the lighting of environments for the performance of visual work and the proper interaction with architecture. Prerequisites: Requires pre-requisite courses of GEEN 1300 or CSCI 1300 (min grade C-).

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-3602 (3) Transportation Systems

Introduces technology, operating characteristics, and relative merits of highway, airway, waterway, railroad, pipeline, and convey or transportation systems. Focuses on evaluation of urban transportation systems and recent transportation innovations. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

CSCI-3656 (3) Numerical Computation

Covers development, computer implementation, and analysis of numerical methods for applied mathematical problems. Topics include floating point arithmetic, numerical solution of linear systems of equations, root finding, numerical interpolation, differentiation, and integration. Prereqs., two semesters of calculus, linear algebra, and either CSCI 1200 or 1300.

College of Engineering & Applied Science Computer Science Numerical Computation

CVEN-3698 (3) Engineering Geology

Highlights the role of geology in engineering minerals; rocks; surficial deposits; rocks and soils as engineering materials; distribution of rocks at and below the surface; hydrologic influences; geologic exploration of engineering sites; mapping; and geology of underground excavations, slopes, reservoirs, and dam sites. Includes field trips.

College of Engineering & Applied Science Civil Engineering Geotechnical

HUEN-3700 (3) Culture Wars in Rome

Investigates in Rome, Italy (during Maymester), the cultural contrasts among three different cities: ancient, pagan, aristocratic Rome; medieval, Christian, theocratic Rome; and modern, secular, democratic Rome. Draws on evidence from Roman literature, politics, art, and architecture. Must have completed a minimum of 26 credit hours by start of course. Requires some preparatory work in Boulder.

College of Engineering & Applied Science Humanities for Engineers

CSCI-3702 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problems, nature versus nurture, conceptual structure and metaphor, logic/problem solving, and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and PSYC 3005.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CVEN-3708 (3) Geotechnical Engineering 1

Studies basic characteristics of geological materials; soil and rock classifications; site investigation; physical, mechanical, and hydraulic properties of geologic materials; the effective stress principle; soil and rock improvement; seepage analysis; stress distribution; and consolidation and settlement analyses. Selected experimental and computational laboratories. Prereq., CVEN 3161 or MCEN 2063. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-3718 (3) Geotechnical Engineering 2

Discusses shear strength, bearing capacity, lateral earth pressures, slope stability, and underground construction. Analyzes and looks at the design of shallow and deep foundations, retaining walls, tunnels, and other earth and rock structures. Selected experimental and computational laboratories. Prereq., CVEN 3708. Prerequisites: Requires pre-requisite course of CVEN 3708 (minimum grade C-). Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Geotechnical

HUEN-3750 (3) Xi'an, China: Self-Awareness and Images of the Other

Explores Chinese culture abroad, focusing on ideas of self and other within special historical, social, political, and economical circumstances. Chinese and American concepts of self and society, of individual, collective, and national identities will be analyzed. Held on the campus of Xi'an Jiaotong University, China. Prerequisite: HUEN 1010 or equivalent.

College of Engineering & Applied Science Humanities for Engineers

CSCI-3753 (4) Operating Systems

Examines software comprising computing systems as it builds upon hardware to provide a programming environment. Looks at structure and function of editors, compilers/assemblers, linkers, etc. Basic operating systems concepts and systems programming in high-level languages. Prereqs., CSCI 2700 and 2400 or ECEN 3350. Prerequisites: Requires pre-requisite courses of CSCI

2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

ECEN-3810 (3) Introduction to Probability Theory

Covers the fundamentals of probability theory, and treats the random variables and random processes of greatest importance in electrical engineering. Provides a foundation for study of communication theory, control theory, reliability theory, optics, and portfolio analysis. Prereqs., APPM 2350 and 2360. Credit not granted for this course and MATH 4510 or APPM 3570. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

CHEN-3840 (1-4) Independent Study

Available to juniors with approval of the Department of Chemical Engineering. Subject arranged to fit needs of the student.

College of Engineering & Applied Science | Chemical Engineering

ECEN-3840 (1-6) Independent Study

Offers an opportunity for juniors to do independent, creative work. Numbered ECEN 3840-3849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

HUEN-3840 (1-3) Independent Study

Offers an opportunity for students to do independent work in the humanities. Subject arranged to fit the needs of the student. May be repeated up to 3 total credit hours. Instructor consent required. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

College of Engineering & Applied Science | Humanities for Engineers

HUEN-3843 (3) Special Topics

Explores different important themes in the humanities, check with department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Humanities for Engineers

GEEN-3851 (3) Statics for Engineers

Examines vector treatment of force systems and their resultants; equilibrium of frames and machines, including internal forces and three-dimensional configurations; static friction; properties of

surfaces, including first and second moments; hydrostatics; and minimum potential energy and stability. Prereq., PHYS 1110. Recommended coreq., APPM 2350. Same as CVEN 2121.

College of Engineering & Applied Science | Engineering Administration

GEEN-3852 (3) Thermodynamics for Engineers

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as MCEN 3012.

College of Engineering & Applied Science | Engineering Administration

GEEN-3853 (3) Fluid Mechanics for Engineers

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to engineering systems. Prereqs., APPM 2350 or 2360, and GEEN 1300 or CSCI 1300. Same as CHEN 3200.

College of Engineering & Applied Science | Engineering Administration

ASEN-3930 (6) Aerospace Engineering Cooperative Education

Students will participate in a previously arranged, department-sponsored cooperative education program with a government agency or industry. Recommended GPA above 3.0. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Aerospace Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CHEN-3930 (6) Chemical Engineering Cooperative Education

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program. Prereqs., CHEN 2120 (min. grade C) and GPA higher than 2.85. GPA higher than 3.00 strongly recommended.

College of Engineering & Applied Science | Chemical Engineering

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ECEN-3930 (6) ECE Co-op Education

Participate in a cooperative education program working with a corporate or government entity. Individual assignments are arranged between the department and the outside employer. This course is offered only through Continuing Education. May be repeated up to 24 credit hours. Prereq., ECEN 2120, 2260, minimum GPA of 2.85 required. Restricted to sophomore, junior and senior EEEN and ECEN majors.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

GEEN-3930 (6) Engineering Co-op

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program with a university, government agency, or industry. This course is offered only through Continuing Education and may be repeated up to 24 credit hours (four co-op terms). GPA higher than 2.75 is required. GPA higher than 3.00 is strongly recommended.

[College of Engineering & Applied Science](#) [Engineering Administration](#)

CSCI-4000 (3) Entrepreneurship in Computing

Examines the development of new venture creation from the entrepreneur's perspective. Provides an understanding of the entire process including opportunity identification, feasibility study, fundraising, organization, team creation, and exit strategies through case studies, oral and written presentations, and outside speakers. Taught by an experienced entrepreneur. Prereq., CSCI 2270. Restricted to juniors/seniors.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

ECEN-4000 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4001 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered ECEN 4001-4049. Prerequisites vary.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4002 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4006 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4009 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

AREN-4010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Prereq., AREN 4110. Same as CVEN 5010.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

ASEN-4010 (3) Introduction to Space Dynamics

Includes central force fields, satellite orbits, rocket dynamics, orbital transfer, interplanetary mission analysis, and perturbation due to atmospheric drag and Earth oblateness. Prereq., ASEN 3200 or equivalent, or instructor consent required. Prerequisites: Requires pre-requisite course of ASEN 3200. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

CHEN-4010 (2) Chemical Engineering Senior Thesis 1

Provides an opportunity for advanced students to conduct exploratory research in chemical engineering.

College of Engineering & Applied Science | Chemical Engineering

ECEN-4011 (1-4) Special Topics

Same as ECEN 5011.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ASEN-4012 (3) Aerospace Materials

Studies aerospace grade aluminum, magnesium, nickel, and titanium alloys. Covers heat treatment, defect structures, failure mechanisms, corrosion and its prevention, the effect of space radiation on materials, and high and low temperature effects. Introduces composite materials with a lab design and experiment. Emphasizes the selection of materials in design with procedures for choosing materials rationally. Case studies include aerogels, carbides, composites, powder metallurgy, nanomaterials, and advanced materials manufacturing technologies. Prerequisites: Requires pre-requisite course of ASEN 2001 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ECEN-4012 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ASEN-4013 (3) Foundations of Propulsion

Describes aerothermodynamics and design of both rocket and air-breathing engines. Includes ramjets, turbojets, turbofans, and turboprop engines, as well as liquid, solid, and hybrid rockets. Prerequisites: Requires pre-requisite courses of ASEN 3113 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ECEN-4013 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4016 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4017 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ASEN-4018 (4) Senior Projects 1: Design Synthesis

Focuses on the synthesis of technical knowledge, project management, design process, leadership, and communications within a team environment. Students progress through the design process beginning with requirements development, then preliminary design and culminating with critical design. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN, 3111, 3112, 3113, 3128, 3200, and 3300 (all min grade C). Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ECEN-4018 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

CHEN-4020 (2) Chemical Engineering Senior Thesis 2

Continuation of CHEN 4010. CHEN 4010 and 4020 can substitute for CHEN 4130.

College of Engineering & Applied Science | Chemical Engineering

ECEN-4021 (1-4) Special Topics

Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4023 (1-4) Special Topics

Same as ECEN 5023.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4024 (1-4) Special Topics

Same as ECEN 5024.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

MCEN-4026 (3) Manufacturing Processes and Systems

Engineering-science design course that examines manufacturing processes for metals, polymers, and composites as well as manufacturing systems that integrate these processes. Lecture topics include: forming, machining, joining, assembling, process integration, computer-aided manufacturing, and manufacturing system engineering. Prereq., MCEN 2024. Prerequisites: Requires prerequisite course of MCEN 2024. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems



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ASEN-4028 (4) Senior Projects 2: Design Practicum

Focuses on the fabrication, integration, verification and validation of designs produced in ASEN 4018. Students work within the same teams from ASEN 4018. Instructor consent required. Offered spring only. Prerequisites: Requires pre-requisite course of ASEN 4018 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Aerospace Design & System Engr](#)

ECEN-4028 (1-4) Special Topics

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

EMEN-4030 (3) Project Management Systems

Acquaints the student with multidisciplinary aspects of project management, including the relationship between schedule, project cost, and performance. Uses qualitative and quantitative tools to facilitate project management skills. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Engineering Management](#)

AREN-4035 (3) Architectural Structures 1

Analyzes basic structural systems. Covers principles of mechanics and mechanical properties of materials and analysis and design of trusses, arches, and cable structures. For nonengineering students; does not apply toward an engineering degree. Prereq., PHYS1110, and APPM 1350 or MATH 1300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Design majors only.

[College of Engineering & Applied Science](#)
[Architectural Structures](#)

College of Engineering & Applied Science | Civil Engineering | Structures

MCEN-4037 (2) Measurements Lab

Carry out several experiments designed to teach methods of experimentation and data analysis. Experiments taken from solid mechanics, fluid mechanics, thermal science, and materials science. Emphasizes planning an experiment, applying sound procedures, keeping proper records, and communicating results orally and in written reports. Gives students the opportunity to participate in projects that extend over two or more weeks. Prerequisites: Requires prerequisites of ECEN3010 & MCEN2063 (or CVEN3161 or ASEN3112) & MCEN3037 (or APPM4520 or 4570 or CVEN3227 or CHEN3010) & WRTG3030 (or WTRG3035 or HUEN3100 or PHYS3050). Restricted to MCEN majors w/57-180 credits (juniors/seniors).

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-4043 (3) System Dynamics

Covers linear dynamic systems and mathematical tools for understanding them, input-output relationships, modeling templates, complex variables, Laplace transform, time-harmonic forcing and response, Fourier series and discrete Fourier transform, and coupled systems. Prereqs., ECEN 3010 and MCEN 2043 or 3043. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Solids

AREN-4045 (3) Architectural Structures 2

Analyzes basic structural systems. Covers principles of mechanics as applied to the design of flexural members, columns, continuous beams, and rigid frames. For nonengineering students; does not apply toward an engineering degree. Prereq., AREN 4035.

College of Engineering & Applied Science | Civil Engineering | Structures

MCEN-4045 (3) Mechanical Engineering Design Project 1

First part of a two-course capstone design experience in mechanical engineering. Covers problem definition, determining design requirements, alternative design concepts, engineering analysis, proof-of-concept prototype, and CAD drawings. Students make several oral design reviews, a final design presentation, and prepare a written report. Coreq., MCEN 4026. Prerequisites: Requires prerequisite courses of MCEN 3025 & 3032 & 3022 (or CHEN 3210) and GEEN 1400 (or ECEN 1400 or GEEN 3400). Restricted to students with 87-180 credits (Senior) Mechanical Engineering majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

ASEN-4047 (3) Probability and Statistics for Aerospace Engineering Sciences

Considers probability concepts and theory for better design and control of aerospace engineering systems. Includes descriptive and inferential statistical methods for experimental analysis. Also covers discrete and continuous random variable distributions, estimators, confidence intervals, regression, analysis of variance, hypothesis testing, nonparametric statistics, random processes, and quality control, including software models of same. Prereq., junior or graduate standing or instructor consent. Same as ASEN 5047.

College of Engineering & Applied Science | Aerospace Engineering | Computational & Analytic Meth

MCEN-4047 (2) Measurements 2

Four hours of lab per week. Student teams perform laboratory projects that extend over several weeks. Takes experiments from solid mechanics, acoustics, electronics, and other ME-related disciplines. Emphasizes planning an experiment, applying sound experimental procedures, using statistics, keeping proper records, and communicating results orally, on posters, and in written documents. Prerequisites: Requires prerequisite courses of MCEN 2024 and MCEN 4037. Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

ECEN-4049 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

EMEN-4050 (3) Leadership and Professional Skills

Provides basic concepts of leadership and the essential skills required to become an effective leader/manager. Students will be provided the opportunity for personal development through exercises in communication and leadership effectiveness. Other major topics include leadership styles, managing commitments, change management, negotiation, conflict resolution, organizational culture, emotional intelligence, team dynamics, and business ethics. Restricted to seniors in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Engineering Management

EHON-4051 (1) Dimensions of Leadership

Explores the many dimensions of leadership that exceed technical knowledge: the ethical, societal, cultural, interpersonal, and personal. Through seminars, workshops and exposure to leaders, students will reflect upon their engineering education in light of the multifaceted demands of effective leadership and their own personal career goals. Students will take an active role in shaping the course. Prereq., junior standing; honors standing or instructor consent. Repeatable for credit up to 3 credit hours.

College of Engineering & Applied Science | Engineering Administration

ECEN-4053 (1-4) Special Topics

Same as ECEN 5053.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

MCEN-4085 (4) Mechanical Engineering Design Project 2

Second part of a two-course capstone design experience in mechanical engineering. Includes refinement of prototype, design optimization, fabrication, testing, and evaluation. Students orally present the final design and prepare a written report and operation manual for the product. Prereq., MCEN 4026 and 4045. Prerequisites: Requires prerequisite courses of MCEN 4026 and

MCEN 4045. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

CVEN-4087 (3) Construction Contract Administration

Students will develop a working understanding of the various types of contracts, key contract provisions, how to evaluate contract risk, ethical requirements, and most importantly explore effective contract administration. Construction and engineering contracts are at the core of all project relationships. Through lecture, group dialog and case studies students will develop confidence in their ability to assess, understand and deploy contract administration in a construction setting. Prereq., senior standing in civil or architectural engineering or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

ASEN-4090 (3) Global Positioning Systems Applications

Focuses on GPS technology, software development, and applications. Lectures will cover the principal concepts used in GPS, and weekly laboratories will apply that knowledge. The course will culminate instudent design projects using GPS. Prereqs., APPM 2360 and GEEN 1300 or equivalent. Recommended junior/senior standing in engineering.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

CHEN-4090 (1) Senior Seminar

Provides chemical engineering career and professional information, facilitates contact with faculty and industry representatives, and improves communication and leadership skills. Consists of a series of seminars and field trips and requires a research project involving a written and oral report. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

College of Engineering & Applied Science | Chemical Engineering

EMEN-4100 (3) Business Methods and Economics for Engineers

Covers cost concepts, financial statements, and the company economic environment. Includes concepts and methods of analysis of the time value of money, comparison of project alternatives before and after taxes, cash flows, replacement analysis, risk management, and financial cash statements. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Engineering Management

EVEN-4100 (3) Environmental Sampling and Analysis

Introduces students to hands-on environmental sampling and analysis techniques for characterization of surface water, subsurface water, soils and sediments, and air. Laboratories include stream sampling, drilling, monitoring well installation, water level, slug tests, air sampling. Prereqs., CVEN 4404 and 4414, fluid mechanics, or instructor consent.

College of Engineering & Applied Science | Environmental Engineering

ECEN-4106 (3) Photonics

Deals with the generation, transmission, modification and detection of light. Applications include fiber optics communications, data storage, sensing, and imaging. Leads to understanding of fundamental physical principles used in the analysis and design of modern photonic systems. Prereqs., ECEN 3400. Coreq., ECEN 3300. Restricted to seniors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

AREN-4110 (3) HVAC Design 1

Applies engineering principles to the design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, applied psychometrics, coils and heat exchangers, air and water distribution systems, and primary equipment and systems. Prereq., AREN 3010. Same as CVEN 5110.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CSCI-4113 (3) Unix System Administration

Introduces UNIX (Linux) system administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts. Students build a Linux server from the ground up, using provided computing resources, and must maintain and secure the server themselves. Prereqs., CSCI 2270 or instructor consent. Recommended prereq., CSCI 3308. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

ASEN-4114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 5114. Prerequisites: Requires pre-requisite courses of ASEN 3128 and ASEN 3200 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

MCEN-4115 (3) Mechantronics and Robotics I

Focuses on design and construction of microprocessor-controlled electro-mechanical systems. Lectures review critical circuit topics, introduce microprocessor architecture and programming, discuss sensor and actuator component selection, robotic systems, and design strategies for complex, multi-system devices. Lab work reinforces lectures and allows hands-on experience with robotic design. Students must design and build an autonomous robotic device. Project expenses may be incurred (\$50 maximum). Prereqs., ECEN 3010 or equivalent and GEEN 1300 or equivalent. Same as MCEN 5115. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

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CSCI-7782 (3) Topics in Cognitive Science

Addresses a different set of one to three topics each year. For each topic, one or two faculty members of the Institute of Cognitive Science present background material and current research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CVEN-7788 (3) Soil Behavior

Topics include soil mineralogy, formation of soils through sedimentary processes and weathering, determination of soil composition, soil water, colloidal phenomena in soils, fabric property relationships, analysis of mechanical behavior including compressibility, strength and deformation, and conduction phenomena in terms of physicochemical principles. Involves applications for stabilization and improvement of soils, and disposal of waste materials. Prereq., CVEN 3718 or instructor consent.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Geotechnical](#)

CSCI-7818 (3) Topics in Software Engineering

Studies selected topics of current interest in software engineering. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

ECEN-7840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840-7849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-7849 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840--7849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

CSCI-7900 (1-6) Doctoral Level Independent Study

For doctoral students.

College of Engineering & Applied Science | Computer Science | General Computer Science

ASEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CHEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Chemical Engineering

CSCI-8990 (1-10) Doctoral Dissertation

Investigates some specialized field of computer science. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CVEN-8990 (1-10) Doctoral Thesis

A minimum of 30 credit hours is required.

College of Engineering & Applied Science | Civil Engineering | Building Systems

ECEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Electrical & Computer Engineering | General

TLEN-8990 (1-10) Doctoral Dissertation

Investigates specialized topic or field in the area of telecommunications. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

MCEN-8999 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Mechanical Engineering | Special Topics



Courses

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MUEL-1081 (3) Basic Music Theory

Introduction to music notation, meter and rhythm, scales, intervals, triads, seventh chords, fundamentals of harmonic progression, voice leading, aural skills, and composition. For nonmusic majors who have little or no previous background in the subject. Formerly EMUS 1081. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUEL-1115 (1) Piano Class 1

Introduces the keyboard and music reading for nonmusic majors with no prior keyboard experience. Studies very easy classical and pop repertoire. Prereq., no prior keyboard experience or instructor consent. Formerly EMUS 1115. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUEL-1125 (1) Piano Class II

Continuation of MUEL 1115. Focuses on development of music reading. Studies technical patterns, easy classical and pop repertoire, and improvisation. Prereq., MUEL 1115. Restricted to non-College of Music majors only. Formerly EMUS 1125. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUEL-1145 (2-4) Guitar Class

A systematic study of the beginning literature and technique of the classical guitar with an emphasis on reading music. Designed for nonmusic majors with no prior musical experience. Restricted to non-College of Music majors only. Formerly EMUS 1145. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1155 (2) Intermediate Guitar

Studies the intermediate literature and technique of the classical and popular guitar. Emphasis on reading standard notation and chord charts. Designed for non-music majors. May be repeated up to 6 total credit hours. Prereq., MUEL 1145 or instructor consent. Restricted to non-College of Music majors only. Formerly EMUS 1155. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated upto 6 total credit hours. Recommended prereq., ability to read music. Formerly EMUS 1184. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1416 (2) Introduction to Hand Percussion

Studies the literature and technique of hand percussion. Emphasizes African and Latin percussion techniques. Designed for non-music majors. May be repeated up to 6 total credit hours. Restricted to non-College of Music majors only. Formerly EMUS1416. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1832 (3) Appreciation of Music

Provides a basic knowledge of primarily Western music literature and development of discriminating listening habits. Restricted to nonmusic majors. Formerly EMUS 1832. Approved for arts and sciences core curriculum: literature and the arts. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2091 (2) Intro to Audio Recording

Introduces and explores basic concepts in audio recording from microphones to digital audio workstations. Also focuses on development of critical listening skills. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2184 (1) Voice Class

Continuation of MUEL 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., MUEL 1184. Restricted to non-College of Music majors only. Formerly EMUS 2184. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2752 (3) Music in American Culture

Offers a stylistic and historical examination of trends that have influenced present-day music in the U.S. Formerly EMUS 2752. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2772 (3) World Musics

Highlights music outside Western art tradition, using current ethnomusicological materials. Spring semester focuses on musical cultures of the Americas, Africa, and Europe; fall semester focuses on musical cultures of Asia and Oceania. May be repeated up to 6 total credit hours. Formerly EMUS 2772. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2842 (3) American Musical Theatre

Provides an overview of the role of musical theatre in U.S. culture, emphasizing the 20th century Broadway musical. Restricted to non-College of Music majors only. Formerly EMUS 2842. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2852 (3) Music of the Rock Era

Examines popular music, concentrating on the U.S. after 1950. Considers precursor styles (e.g., blues folk) and contributions to the new rock style; discusses the evolution of rock style from 1960 through the 1990s. Formerly EMUS 2852. Approved for the arts and sciences core curriculum: literature and the arts. Offered spring only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2862 (3) American Film Musical, 1926-1954

Examines the development of filmed musicals from the beginning of sound movies through the Golden Age of Musicals. Emphasizes analysis and relationships of characters, songs, and incidental music. Restricted to non-College of Music majors only. Formerly EMUS 2862. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explores, discuss, debate and develop deeper understanding of Heavy Metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of

Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct are also discussed. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3051 (2) Basic Composition

Introduces the processes, materials, and forms of composition through the writing and performance of short musical works. Open to any student who already has rudimentary musical knowledge. Restricted to non-College of Music majors only. Formerly EMUS 3051. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events, and people most important to its evolution. For nonmusic majors. Formerly EMUS 3642. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course.

College of Music | Elective Music

MUEL-3822 (3) Words and Music

Explores the interaction between words and music in song. Students will consider how such features as rhyme, rhythm, tone, and the connotations of particular words contribute to meaning in poetry; how rhythm, tempo, dynamics, mood, and instrumentation contribute to meaning in music; and how words and music coalesce in song to make a new meaning. Restricted to non-College of Music majors only. Formerly EMUS 3822. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3832 (3) Music in Literature

Addresses literature that seeks either to explore the meaning of music or to make music out of words. Students will consider how musical concepts and techniques can be incorporated into poetry and prose, and will analyze the roles that writers have attributed to music in society, politics, and the life of the individual. Restricted to non-College of Music majors only. Formerly EMUS 3832. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explore, discuss, debate and develop deeper understanding of Heavy metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct area also discussed.

College of Music | Elective Music

MUEL-4012 (3-6) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Restricted to non-College of Music majors only. Formerly EMUS 4012. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-4081 (3) Introduction to Music Technology

Surveys the various tools and techniques in the field of music technology. Topics include an introduction to basic synthesis, musical instrument digital interface (MIDI) sequencing, audio sequencing, digital signal processing, music notation, and a historical perspective on electronic music. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-4121 (3) Topics in Music Technology

Exploration of issues, techniques and tools of music technology. Topics vary from term to term and may include: interactive system for performance, teaching, and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures and work sessions will support student projects. Prereqs., MUSC 4081 or MUEL 4081 or instructor consent required. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

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Courses

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MUSC-1081 (3) Intensive Music Theory

Introduces tools used in notating, performing, creating, and listening to music. Coreq., MUSC 1121. Open to music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) | [Music](#) | [Theory and Composition](#)

MUSC-1101 (2) Semester 1 Theory

Introduces the fundamentals of diatonic harmony and voice leading, focusing on four-voice writing and analysis of excerpts from music literature. For music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) | [Music](#) | [Theory and Composition](#)

PMUS-1105 (1) Keyboard Musicianship 1

Introduces the keyboard, music reading in the treble and bass clefs, basic theory and keyboard harmony, technical patterns, and improvisation. Studies easy classical and pop repertoire. May be repeated up to 12 total credit hours. Restricted to music majors with no keyboard experience or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) | [Music](#) | [Keyboard Musicianship](#)

MUSC-1111 (2) Semester 2 Theory

Continuation of MUSC 1101. Covers principles of harmony and voice leading, using all common diatonic triads and seventh chords. Introduces secondary dominants, modulation, contrapuntal chord functions, and elementary structural analysis of excerpts from music literature. Prereq., MUSC 1101. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1101 or 1081. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-1121 (1) Aural Skills Lab, Semester 1

Focuses on sight singing, rhythm, and dictation of diatonic melodies in major and minor keys (treble, alto, and bass clefs). Covers identification of scale types, intervals, triads, and dominant seventh chords. Studies harmonic dictation using chords from MUSC 1101. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-1131 (1) Aural Skills Lab, Semester 2

Acquaints students with sight singing in major and minor keys (treble, alto, tenor, and bass clefs). Includes dictation of one- and two-voice examples. Studies harmonic dictation using vocabulary from MUSC 1111. Considers detection of pitch and rhythm errors in performed examples. Prereq., MUSC 1121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1121. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

PMUS-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated up to 6 total credit hours. Restricted to MUSC majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-1205 (1) Keyboard-Musicianship 2

Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard Musicianship

MUSC-1325 (1) Piano Sight Reading

Studies techniques for improving sight-reading skills at the keyboard, with practical work in solo, ensemble, and choral literature. Also covers score reading and transposition. Restricted to piano majors instructor consent. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard

MUSC-1326 (1) Guitar Musicianship

Activities in sight-reading, fretboard harmony and comprehension of harmony and texture. Some work will be tied to the repertoire being studied in studio lessons. Open only to students with an emphasis on guitar performance in their degree plan. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

PMUS-1515 (2) Jazz Piano Class

Offers small group instruction in the concepts and skills required to learn jazz piano. Students not only learn basic techniques required to play jazz but also become familiar with the theory, grammar, and lexicon of the jazz language. May be repeated up to 4 total credit hours. Prereq., PMUS 1205 or instructor consent required. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard Musicianship

MUSC-1544 (1) Italian Diction

Designed for the understanding of lyric Italian diction, the international phonetic alphabet, and its application to classical singing. Required for freshmen BM voice majors. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-1554 (1) English Diction

Designed for the understanding of lyric English diction, the international phonetic alphabet, and its application to classical singing as well as various musical styles of English classical voice literature. Prereq., MUSC 1544. Restricted to College of Music majors only. Required for Freshmen BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-1802 (3) Introduction to Musical Styles and Ideas

Introduces the study of music including bibliographic, listening, score reading, critical reading, and writing skills; music terminology; a survey of selected music genres (symphonic and chamber music); and building of general music repertory. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Musicology

MUSC-2071 (2) Instrumentation

Introduces and studies the instruments of the orchestra and problems of scoring for diverse choirs and full orchestra. Prereqs., MUSC 2101 and 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2081 (2) Prepared for the Soundcheck

Provides an overview of the recording process from the performer's perspective from soundcheck through final mastering. Uses recorded material from in-class sessions. Examines differing approaches to recording as well as current technologies. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2091 (2) Recording Techniques

Provides hands-on training in various audio recording techniques, acoustics, and sound reinforcement, studio maintenance, and troubleshooting. Real-world experience is gained through individual recording projects and College of Music events. Prereq., MUSC 2081 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2101 (2) Semester 3 Theory

Continuation of MUSC 1111. Reviews secondary dominants, secondary leading-tone chords, and modulation. Covers dissonance and chromaticism, including modal mixture, seventh chords with added dissonance, Neapolitan sixth chord, and augmented sixth chords. Provides structural analysis of musical excerpts. Prereq., MUSC 1111. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-2103 (3) Introduction to Music Education

Provides an overview of basic principles and practices of the music education profession. Explores public school music teaching through class discussions, directed observations, and a supervised field experience. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-2105 (1) Keyboard-Musicianship 3

Continuation of PMUS 1205. May be repeated up to 12 total credit hours. Prereq., PMUS 1205 or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard Musicianship

MUSC-2111 (2) Semester 4 Theory

Continuation of MUSC 2101. Focuses on advanced chromaticism including modal mixture, altered dominants, voice leading, and chromatic harmony in larger contexts. Examines impressionism and jazz. Also involves composition projects. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2101. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2121 (1) Aural Skills Lab, Semester 3

Continuation of MUSC 1131. Studies sight singing of chromatic melodies in major and minor keys (in four clefs). Includes dictation of one- through three-voice examples. Studies harmonic dictation using vocabulary from MUSC 2101. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 1131. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-2131 (1) Aural Skills Lab, Semester 4

Continuation of MUSC 2121. Studies sight singing of chromatic and atonal melodies. Includes dictation of one- through three-voice examples. Identifies sonorities studied in MUSC 2111. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2121. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

PMUS-2184 (1) Voice Class.

Continuation of Pmus 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., Pmus 1184. Restricted to Musc majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-2205 (1) Keyboard-Musicianship 4

Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard Musicianship

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MUSC-1081 (3) Intensive Music Theory

Introduces tools used in notating, performing, creating, and listening to music. Coreq., MUSC 1121. Open to music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) |
 [Music](#) |
 [Theory and Composition](#)

MUSC-1101 (2) Semester 1 Theory

Introduces the fundamentals of diatonic harmony and voice leading, focusing on four-voice writing and analysis of excerpts from music literature. For music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-1111 (2) Semester 2 Theory

Continuation of MUSC 1101. Covers principles of harmony and voice leading, using all common diatonic triads and seventh chords. Introduces secondary dominants, modulation, contrapuntal chord functions, and elementary structural analysis of excerpts from music literature. Prereq., MUSC 1101. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1101 or 1081. Restricted to College of Music undergraduate students only.

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MUSC-1121 (1) Aural Skills Lab, Semester 1

Focuses on sight singing, rhythm, and dictation of diatonic melodies in major and minor keys (treble, alto, and bass clefs). Covers identification of scale types, intervals, triads, and dominant seventh chords. Studies harmonic dictation using chords from MUSC 1101. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-1131 (1) Aural Skills Lab, Semester 2

Acquaints students with sight singing in major and minor keys (treble, alto, tenor, and bass clefs). Includes dictation of one- and two-voice examples. Studies harmonic dictation using vocabulary from MUSC 1111. Considers detection of pitch and rhythm errors in performed examples. Prereq., MUSC 1121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1121. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2071 (2) Instrumentation

Introduces and studies the instruments of the orchestra and problems of scoring for diverse choirs and full orchestra. Prereqs., MUSC 2101 and 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2081 (2) Prepared for the Soundcheck

Provides an overview of the recording process from the performer's perspective from soundcheck through final mastering. Uses recorded material from in-class sessions. Examines differing approaches to recording as well as current technologies. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2091 (2) Recording Techniques

Provides hands-on training in various audio recording techniques, acoustics, and sound reinforcement, studio maintenance, and troubleshooting. Real-world experience is gained through individual recording projects and College of Music events. Prereq., MUSC 2081 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2101 (2) Semester 3 Theory

Continuation of MUSC 1111. Reviews secondary dominants, secondary leading-tone chords, and modulation. Covers dissonance and chromaticism, including modal mixture, seventh chords with added dissonance, Neapolitan sixth chord, and augmented sixth chords. Provides structural analysis of musical excerpts. Prereq., MUSC 1111. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-2111 (2) Semester 4 Theory

Continuation of MUSC 2101. Focuses on advanced chromaticism including modal mixture, altered dominants, voice leading, and chromatic harmony in larger contexts. Examines impressionism and jazz. Also involves composition projects. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2101. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2121 (1) Aural Skills Lab, Semester 3

Continuation of MUSC 1131. Studies sight singing of chromatic melodies in major and minor keys (in four clefs). Includes dictation of one- through three-voice examples. Studies harmonic dictation using vocabulary from MUSC 2101. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 1131. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-2131 (1) Aural Skills Lab, Semester 4

Continuation of MUSC 2121. Studies sight singing of chromatic and atonal melodies. Includes dictation of one- through three-voice examples. Identifies sonorities studied in MUSC 2111. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2121. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3051 (2) Beginning Composition

For noncomposition majors. Introduction to the craft of musical composition with analysis and writing in various styles. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3061 (2) Jazz Improvisation I

Develops skills in jazz improvisation through practical application of chord/scale relationship, transcription, repertoire, and analysis. Open to all instruments. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3071 (2) Jazz Improvisation II

Continues and expands upon the material presented in MUSC 3061. Reinforcement of ability to create an improvised melody in a range of harmonic contexts including blues, bebop, modal jazz, free jazz, and other styles. Prereq., MUSC 3061 or instructor consent. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3081 (3) Jazz Theory and Aural Foundations

Presents the grammar and syntax of jazz. Acquaints the student with the language of jazz improvisation and various jazz styles. The musician's most valuable tool---the ear---is developed through an in-depth analytical study of jazz masters through harmonic dictation/identification. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4001 (2) New Musical Styles and Practices

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered every other year. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4011 (2) 16th Century Counterpoint

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., Musc 2111 and 2131. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including invention, suite, and fugue. Provides a foundation in species counterpoint; stresses analysis and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4031 (2) Jazz Arranging 1

Study of notation, score layout, transpositions, basic harmonic and melodic analysis, basic chord voicings, and composition for a small and large jazz ensemble. Use of notation software such as Finale or Sibelius. Prereqs., MUSC 2111 and 2131. Recommended prereq., MUSC 3081. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4041 (2) Orchestration

Studies advanced orchestration techniques through score analysis and student projects. Prereq., MUSC 2071 or instructor consent. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4061 (2) Tonal Analysis

Surveys tonal analytical techniques and forms of tonal music, including binary forms, sonata forms, ternary forms, rondo (and others) through study of selected works from the 18th and 19th centuries. Prereqs., MUSC 2111 and 2131. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4071 (2) Post-Tonal Theory and Analysis

Focus on theory and analysis of post-tonal literature pre-1945. Prereqs., MUSC 2111 and 2131. Offered every other fall. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4081 (3) Introduction to Music Technology

Topics include basic synthesis, musical instrument digital interface (MIDI) sequencing, and music notation by computer. Offered fall and spring. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4091 (2) Jazz Arranging 2

Continuation and expansion of studies in MUSC 4031. Survey and analysis of major composers and arrangers of the idiom. Course focuses on creating several arranging projects for a large jazz ensemble. Prereq., MUSC 4031. Recommended prereq., MUSC 3081. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

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PMUS-1105 (1) Keyboard Musicianship 1

Introduces the keyboard, music reading in the treble and bass clefs, basic theory and keyboard harmony, technical patterns, and improvisation. Studies easy classical and pop repertoire. May be repeated up to 12 total credit hours. Restricted to music majors with no keyboard experience or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) |
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PMUS-1205 (1) Keyboard-Musicianship 2

Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-1515 (2) Jazz Piano Class

Offers small group instruction in the concepts and skills required to learn jazz piano. Students not only learn basic techniques required to play jazz but also become familiar with the theory, grammar, and lexicon of the jazz language. May be repeated up to 4 total credit hours. Prereq., PMUS 1205 or instructor consent required. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-2105 (1) Keyboard-Musicianship 3

Continuation of PMUS 1205. May be repeated up to 12 total credit hours. Prereq., PMUS 1205 or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard Musicianship

PMUS-2205 (1) Keyboard-Musicianship 4

Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard Musicianship

PMUS-4105 (1) Supervised Accompanying

Assigned projects, both vocal and instrumental, are coached by collaborative piano faculty and others. May involve recital, jury, or master class performances. Prereq., MUSC 1325 and MUSC 2365 or instructor consent. Prerequisites: Requires pre-requisite course of MUSC 1325 and MUSC 2365). Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard Musicianship

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MUEL-1081 (3) Basic Music Theory

Introduction to music notation, meter and rhythm, scales, intervals, triads, seventh chords, fundamentals of harmonic progression, voice leading, aural skills, and composition. For nonmusic majors who have little or no previous background in the subject. Formerly EMUS 1081. Prerequisites: Restricted to non-College of Music majors only.

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MUSC-1081 (3) Intensive Music Theory

Introduces tools used in notating, performing, creating, and listening to music. Coreq., MUSC 1121. Open to music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-1101 (2) Semester 1 Theory

Introduces the fundamentals of diatonic harmony and voice leading, focusing on four-voice writing and analysis of excerpts from music literature. For music majors only. Offered fall only.

Prerequisites: Restricted to Music majors or graduate students only.

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PMUS-1105 (1) Keyboard Musicianship 1

Introduces the keyboard, music reading in the treble and bass clefs, basic theory and keyboard harmony, technical patterns, and improvisation. Studies easy classical and pop repertoire. May be repeated up to 12 total credit hours. Restricted to music majors with no keyboard experience or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-1111 (2) Semester 2 Theory

Continuation of MUSC 1101. Covers principles of harmony and voice leading, using all common diatonic triads and seventh chords. Introduces secondary dominants, modulation, contrapuntal chord functions, and elementary structural analysis of excerpts from music literature. Prereq., MUSC 1101. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1101 or 1081. Restricted to College of Music undergraduate students only.

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MUEL-1115 (1) Piano Class 1

Introduces the keyboard and music reading for nonmusic majors with no prior keyboard experience. Studies very easy classical and pop repertoire. Prereq., no prior keyboard experience or instructor consent. Formerly EMUS 1115. Prerequisites: Restricted to non-College of Music majors only.

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MUSC-1121 (1) Aural Skills Lab, Semester 1

Focuses on sight singing, rhythm, and dictation of diatonic melodies in major and minor keys (treble, alto, and bass clefs). Covers identification of scale types, intervals, triads, and dominant seventh chords. Studies harmonic dictation using chords from MUSC 1101. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUEL-1125 (1) Piano Class II

Continuation of MUEL 1115. Focuses on development of music reading. Studies technical patterns, easy classical and pop repertoire, and improvisation. Prereq., MUEL 1115. Restricted to non-College of Music majors only. Formerly EMUS 1125. Prerequisites: Restricted to non-College of Music majors only.

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MUSC-1131 (1) Aural Skills Lab, Semester 2

Acquaints students with sight singing in major and minor keys (treble, alto, tenor, and bass clefs). Includes dictation of one- and two-voice examples. Studies harmonic dictation using vocabulary from MUSC 1111. Considers detection of pitch and rhythm errors in performed examples. Prereq., MUSC 1121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1121. Restricted to College of Music undergraduate students only.

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MUEL-1145 (2-4) Guitar Class

A systematic study of the beginning literature and technique of the classical guitar with an emphasis on reading music. Designed for nonmusic majors with no prior musical experience. Restricted to non-College of Music majors only. Formerly EMUS 1145. Prerequisites: Restricted to non-College of Music majors only.

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PMUS-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated up to 6 total credit hours. Restricted to MUSC majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-1544 (1) Italian Diction

Designed for the understanding of lyric Italian diction, the international phonetic alphabet, and its application to classical singing. Required for freshmen BM voice majors. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-1554 (1) English Diction

Designed for the understanding of lyric English diction, the international phonetic alphabet, and its application to classical singing as well as various musical styles of English classical voice literature. Prereq., MUSC 1544. Restricted to College of Music majors only. Required for Freshmen BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-2184 (1) Voice Class.

Continuation of Pmus 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., Pmus 1184. Restricted to Musc majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-3167 (3) Opera Theatre Stagecraft

Introduction to the processes, materials, and equipment used in theatrical production. Lecture and lab requirements. Lab experiences include introductory work in the opera scenery, property, costume, and electrical shops. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-3444 (1) French Diction

Designed for the understanding of lyric French diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of French classical vocal literature. Prereq., MUSC 1554. Recommended prereq., MUSC 3464. Required of Junior BM voice majors. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-3464 (1) German Diction

Designed for the understanding of lyric German diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of German classical vocal literature. Prereq., MUSC 1554. Restricted to College of Music majors only. Required of sophomore BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-4137 (1) Opera Theatre 1

Addresses issues related to young artist development. Areas of concentration include (but are not limited to) acting technique, resume preparation, audition technique, scene analysis, and role preparation. The acting technique is addressed in this course through textbook reading and exercise. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-4147 (1) Opera Theatre 2

Continuation of PMUS 4137. Further scene analysis and movement exercises are addressed in this class. May be repeated up to 12 total credit hours. Prereq., PMUS 4137. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-4157 (1-3) Opera Practicum

Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-4167 (1-3) Opera Theatre Lab

Advanced work in the scenery, property, costume, and electrical shops in opera performance. Additional experiences may include positions with opera run crews, the box office, or other supporting areas. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-4497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. May be repeated up to 12 credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-5137 (2) Opera Theatre 1

Addresses issues related to young artist development at the graduate level. Areas of concentration will include (but are not limited to) acting technique for singers, resume preparation and scene and character analysis. Students will participate in acting and improvisation exercises. Substantial classical voice study is required and this course is recommended for voice majors only. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

PMUS-5147 (2) Opera Theatre 2

Continuation of PMUS 5137. May be repeated up to 12 total credit hours. Prereq., PMUS 5137.

College of Music | Music | Voice

PMUS-5184 (1) Graduate Voice Class

Teaches solo and choral singing and vocal modeling. Designed for choral and music education graduate students. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5444 (2) Vocal Pedagogy

In depth study of the physiology, acoustics, and health aspects of the singing voice. Recommended for all graduate students in voice. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5454 (2) Repertory for Young Voices

Survey of the solo repertoire for young voices, the physiological aspects of mutational voices, techniques of vocalizing young voices, and class voice procedure. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5464 (2) French Song Literature

Provides an extensive analytical and historical discussion of French song literature styles, from the 12th century to the present.

College of Music | Music | Voice

MUSC-5484 (2) Graduate Seminar in Vocal Pedagogy

A thorough investigation of the challenges of studio voice pedagogy, including corrective techniques, psychological philosophies, and video analysis of student teaching. Examination and evaluation of comparative methodologies of vocal technique. Prereq., MUSC 5444 or instructor consent required.

College of Music | Music | Voice

PMUS-5497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. Class may fulfill voice literature requirements when appropriate classes are not offered. Also available: weekly individual coaching to prepare for voice recitals and other projects. Diction, musical styles, and interpretation (music and text) are the main focus of this course. May be repeated up to 12 credit hours. for graduate voice students and collaborative pianists. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5564 (2) German Song Literature

Provides an extensive analytical and historical discussion of German song literature styles, from the 18th century to the present.

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EMUS-1217 (1) University Singers

College of Music | Music Ensembles

EMUS-1227 (1) University Choir

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1237 (1) Women's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1247 (1) Men's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1257 (1) Collegiate Chorale

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1267 (1) Choirs/Festival

College of Music | Music Ensembles

EMUS-1277 (1) Court Players

College of Music | Music Ensembles

EMUS-1287 (1) Marching Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1297 (1) Wind Symphony

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1307 (1) Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1317 (1) Campus Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-1347 (1) Bell Ensemble

College of Music | Music Ensembles

EMUS-1357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-1367 (1) Early Music Ensembles

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-1387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-1397 (1) Chamber Music Piano Duo

College of Music | Music Ensembles

EMUS-1407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-1417 (1) Percussion Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1437 (1) Jazz Combo

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1447 (1) Guitar Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, Latin American, African American, and Asian American, as well as music from the mother cultures of these groups. Same as EMUS 3467 and 5467. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

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MUEL-1155 (2) Intermediate Guitar

Studies the intermediate literature and technique of the classical and popular guitar. Emphasis on reading standard notation and chord charts. Designed for non-music majors. May be repeated up to 6 total credit hours. Prereq., MUEL 1145 or instructor consent. Restricted to non-College of Music majors only. Formerly EMUS 1155. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated upto 6 total credit hours. Recommended prereq., ability to read music. Formerly EMUS 1184. Prerequisites: Restricted to non-College of Music majors only.

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PMUS-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated up to 6 total credit hours. Restricted to MUSC majors. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-1205 (1) Keyboard-Musicianship 2

Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-1217 (1) University Singers

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EMUS-1227 (1) University Choir

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1237 (1) Women's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1247 (1) Men's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1257 (1) Collegiate Chorale

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1267 (1) Choirs/Festival

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EMUS-1277 (1) Court Players

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EMUS-1287 (1) Marching Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1297 (1) Wind Symphony

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1307 (1) Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1317 (1) Campus Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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MUSC-1325 (1) Piano Sight Reading

Studies techniques for improving sight-reading skills at the keyboard, with practical work in solo, ensemble, and choral literature. Also covers score reading and transposition. Restricted to piano majors instructor consent. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard

MUSC-1326 (1) Guitar Musicianship

Activities in sight-reading, fretboard harmony and comprehension of harmony and texture. Some work will be tied to the repertoire being studied in studio lessons. Open only to students with an emphasis on guitar performance in their degree plan. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

EMUS-1327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-1347 (1) Bell Ensemble

College of Music | Music Ensembles

EMUS-1357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-1367 (1) Early Music Ensembles

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-1387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-1397 (1) Chamber Music Piano Duo

College of Music | Music Ensembles

EMUS-1407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

MUEL-1416 (2) Introduction to Hand Percussion

Studies the literature and technique of hand percussion. Emphasizes African and Latin percussion techniques. Designed for non-music majors. May be repeated up to 6 total credit hours. Restricted to non-College of Music majors only. Formerly EMUS1416. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

EMUS-1417 (1) Percussion Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1437 (1) Jazz Combo

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1447 (1) Guitar Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, Latin American, African American, and Asian American, as well as music from the mother cultures of these groups. Same as EMUS 3467 and 5467. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 3477 and EMUS 5477.

College of Music | Music Ensembles

EMUS-1507 (1) Chamber Music

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

PMUS-1515 (2) Jazz Piano Class

Offers small group instruction in the concepts and skills required to learn jazz piano. Students not only learn basic techniques required to play jazz but also become familiar with the theory, grammar, and lexicon of the jazz language. May be repeated up to 4 total credit hours. Prereq., PMUS 1205 or instructor consent required. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard Musicianship

EMUS-1517 (1) Campus Orchestra

Offers University string, wind and percussion performers not majoring in music an opportunity to play in a conducted orchestra. Rehearsals are one one night per week and has limited performance demands. Auditions are not required for strings. Instruments are available if needed. May be repeated up to 12 total credit hours. Same as EMUS 3517. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

MUSC-1544 (1) Italian Diction

Designed for the understanding of lyric Italian diction, the international phonetic alphabet, and its application to classical singing. Required for freshmen BM voice majors. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-1554 (1) English Diction

Designed for the understanding of lyric English diction, the international phonetic alphabet, and its application to classical singing as well as various musical styles of English classical voice literature. Prereq., MUSC 1544. Restricted to College of Music majors only. Required for Freshmen BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-1802 (3) Introduction to Musical Styles and Ideas

Introduces the study of music including bibliographic, listening, score reading, critical reading, and writing skills; music terminology; a survey of selected music genres (symphonic and chamber music); and building of general music repertory. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Musicology

MUEL-1832 (3) Appreciation of Music

Provides a basic knowledge of primarily Western music literature and development of discriminating listening habits. Restricted to nonmusic majors. Formerly EMUS 1832. Approved for arts and sciences core curriculum: literature and the arts. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

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MUSC-2071 (2) Instrumentation

Introduces and studies the instruments of the orchestra and problems of scoring for diverse choirs and full orchestra. Prereqs., MUSC 2101 and 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Theory and Composition](#)

MUSC-2081 (2) Prepared for the Soundcheck

Provides an overview of the recording process from the performer's perspective from soundcheck through final mastering. Uses recorded material from in-class sessions. Examines differing approaches to recording as well as current technologies. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Theory and Composition](#)

MUEL-2091 (2) Intro to Audio Recording

Introduces and explores basic concepts in audio recording from microphones to digital audio workstations. Also focuses on development of critical listening skills. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) | [Elective Music](#)

MUSC-2091 (2) Recording Techniques

Provides hands-on training in various audio recording techniques, acoustics, and sound reinforcement, studio maintenance, and troubleshooting. Real-world experience is gained through individual recording projects and College of Music events. Prereq., MUSC 2081 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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| College of Music | Music | Theory and Composition |
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MUSC-2101 (2) Semester 3 Theory

Continuation of MUSC 1111. Reviews secondary dominants, secondary leading-tone chords, and modulation. Covers dissonance and chromaticism, including modal mixture, seventh chords with added dissonance, Neapolitan sixth chord, and augmented sixth chords. Provides structural analysis of musical excerpts. Prereq., MUSC 1111. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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| College of Music | Music | Theory and Composition |
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MUSC-2103 (3) Introduction to Music Education

Provides an overview of basic principles and practices of the music education profession. Explores public school music teaching through class discussions, directed observations, and a supervised field experience. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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| College of Music | Music | Music Education |
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PMUS-2105 (1) Keyboard-Musicianship 3

Continuation of PMUS 1205. May be repeated up to 12 total credit hours. Prereq., PMUS 1205 or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

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| College of Music | Music | Keyboard Musicianship |
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MUSC-2111 (2) Semester 4 Theory

Continuation of MUSC 2101. Focuses on advanced chromaticism including modal mixture, altered dominants, voice leading, and chromatic harmony in larger contexts. Examines impressionism and jazz. Also involves composition projects. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2101. Restricted to College of Music undergraduate students only.

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| College of Music | Music | Theory and Composition |
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MUSC-2121 (1) Aural Skills Lab, Semester 3

Continuation of MUSC 1131. Studies sight singing of chromatic melodies in major and minor keys (in four clefs). Includes dictation of one- through three-voice examples. Studies harmonic dictation using vocabulary from MUSC 2101. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 1131. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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| College of Music | Music | Theory and Composition |
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MUSC-2131 (1) Aural Skills Lab, Semester 4

Continuation of MUSC 2121. Studies sight singing of chromatic and atonal melodies. Includes dictation of one- through three-voice examples. Identifies sonorities studied in MUSC 2111. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2121. Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUEL-2184 (1) Voice Class

Continuation of MUEL 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., MUEL 1184. Restricted to non-College of Music majors only. Formerly EMUS 2184. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

PMUS-2184 (1) Voice Class.

Continuation of Pmus 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., Pmus 1184. Restricted to Musc majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-2205 (1) Keyboard-Musicianship 4

Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard Musicianship

MUSC-2325 (2) Applied Harmony for the Keyboard

Provides an intensive study and application of the harmonic structure of music in a variety of keyboard skills: figured bass realization, chord progressions, harmonization, improvisation, transposition, on-sight harmonic analysis, and playing by ear. Prereqs., MUSC 1111, 1131, and 1325. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard

MUSC-2365 (2) Introduction to Accompanying

An overall study in the art of working with instrumentalists and singers including repertoire and orchestral reductions. Requires performance with a student instrumentalist or singer to be critiqued and coached by class and instructor. Prereq., piano major or instructor consent. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-2366 (2) Guitar Accompanying

Survey of accompanying repertoire for guitar with solo instruments (flute, violin, voice, etc.), including introductory work in basso continuo, playing/improvising from chord charts, and arranging accompaniments from musical scores. Prereq., MUSC 1326. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-2608 (1) Alexander Technique

Investigates the discoveries and writings of F. M. Alexander regarding kinesthetic perception and coordination. Applies these contexts to specific musical activities. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUEL-2752 (3) Music in American Culture

Offers a stylistic and historical examination of trends that have influenced present-day music in the U.S. Formerly EMUS 2752. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2772 (3) World Musics

Highlights music outside Western art tradition, using current ethnomusicological materials. Spring semester focuses on musical cultures of the Americas, Africa, and Europe; fall semester focuses on musical cultures of Asia and Oceania. May be repeated up to 6 total credit hours. Formerly EMUS 2772. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-2772 (3) World Musics

Study of music outside western art tradition, using current ethnomusicological materials and methodologies. Spring semester focuses on musical cultures of Africa, the Americas, and Europe; fall semester focuses on musical cultures of Asia and Oceania. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-2782 (3) World Musics Survey--Africa, Europe, and the Americas

Use current ethnomusicological materials and methods in the study of music outside the Western art tradition. Usually taught in the spring, MUSC 2782 focuses on music cultures of Africa, Europe, and the Americas. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUEL-2842 (3) American Musical Theatre

Provides an overview of the role of musical theatre in U.S. culture, emphasizing the 20th century Broadway musical. Restricted to non-College of Music majors only. Formerly EMUS 2842.
Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2852 (3) Music of the Rock Era

Examines popular music, concentrating on the U.S. after 1950. Considers precursor styles (e.g., blues folk) and contributions to the new rock style; discusses the evolution of rock style from 1960 through the 1990s. Formerly EMUS 2852. Approved for the arts and sciences core curriculum: literature and the arts. Offered spring only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2862 (3) American Film Musical, 1926-1954

Examines the development of filmed musicals from the beginning of sound movies through the Golden Age of Musicals. Emphasizes analysis and relationships of characters, songs, and incidental music. Restricted to non-College of Music majors only. Formerly EMUS 2862. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explores, discuss, debate and develop deeper understanding of Heavy Metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct are also discussed. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music



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MUSC-2918 (2) Building Your Music Career

Students acquire the practical skills they need to build their career as professional musicians, as well as explore the many options for putting their music education to work in the marketplace. Students will also explore the state of live music-making today and explore ways to maintain relevance for themselves and their art in an ever-changing world. Formerly MUSC 4918. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) |
 [Music](#) |
 [Music Entrepreneurship](#)

MUSC-2988 (1) Introduction to Music Research

Introduces music research and writing skills to provide tools necessary for successful composition of formal research papers. Applies interests and curricular goals to specific topics of student choice. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

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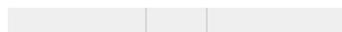
MUSC-2997 (0) Sophomore Proficiency

To be completed by the second semester of the sophomore year. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) |
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MUSC-3013 (1) String Class

For music education majors with choral/general emphasis. Develops basic performance skills on two or more string instruments. Addresses teaching strategies and other specialized topics related to string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.



College of Music | Music | Music Education

MUSC-3023 (1) Woodwind Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3033 (1) Brass Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUEL-3051 (2) Basic Composition

Introduces the processes, materials, and forms of composition through the writing and performance of short musical works. Open to any student who already has rudimentary musical knowledge. Restricted to non-College of Music majors only. Formerly EMUS 3051. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-3051 (2) Beginning Composition

For noncomposition majors. Introduction to the craft of musical composition with analysis and writing in various styles. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3061 (2) Jazz Improvisation I

Develops skills in jazz improvisation through practical application of chord/scale relationship, transcription, repertoire, and analysis. Open to all instruments. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3071 (2) Jazz Improvisation II

Continues and expands upon the material presented in MUSC 3061. Reinforcement of ability to create an improvised melody in a range of harmonic contexts including blues, bebop, modal jazz, free jazz, and other styles. Prereq., MUSC 3061 or instructor consent. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate

students only.

College of Music | Music | Theory and Composition

MUSC-3081 (3) Jazz Theory and Aural Foundations

Presents the grammar and syntax of jazz. Acquaints the student with the language of jazz improvisation and various jazz styles. The musician's most valuable tool---the ear---is developed through an in-depth analytical study of jazz masters through harmonic dictation/identification. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3133 (2) Teaching General Music I

Provides an overview of general music teaching with emphasis on developmentally appropriate strategies and materials. Required for all music education majors as partial fulfillment of course work leading to K-12 music licensure. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3153 (2) Teaching Woodwind Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3163 (2) Teaching String Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more string instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

PMUS-3167 (3) Opera Theatre Stagecraft

Introduction to the processes, materials, and equipment used in theatrical production. Lecture and lab requirements. Lab experiences include introductory work in the opera scenery, property, costume, and electrical shops. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-3176 (2) Conducting 1

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-3186 (2) Conducting II

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Prereq., MUSC 3176. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-3193 (2) Vocal Pedagogy and Literature for Young Voices

Provides an overview of vocal anatomy/function, care of the voice, vocal repertoire, teaching strategies, and other specialized topics related to singing instruction in both private studio and public school choral settings. Fall section for instrumentalists; spring section for vocalists. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

EMUS-3217 (1) University Singers

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

MUSC-3223 (2) Teaching Brass Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

EMUS-3227 (1) University Choir

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3237 (1) Women's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3247 (1) Men's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

MUSC-3253 (2) Jazz Techniques for the Music Educator

Prepares the music educator for successful experiences teaching jazz at the secondary level. Students gain insights into performance and rehearsal techniques for the instrumental jazz ensemble. Explores approaches for teaching jazz theory, improvisation, and selecting literature for young students. Own instrument required for certain classes. Recommended prereqs., MUSC 1111 and 2103. Restricted to College of Music majors only. Offered spring only.

College of Music | Music | Music Education

EMUS-3257 (1) Collegiate Chorale

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3267 (1) Choirs/Festival

[College of Music](#) | [Music Ensembles](#)

PMUS-3271 (2) Basic Improvisation

The exploration of basic music improvisation; performance in various musical styles. Prereq. MUSC 2111 or instructor consent. Offered spring of even-numbered years.

[College of Music](#) | [Music](#) | [Choral and Instrumental Music](#)

MUSC-3273 (2) String Pedagogy and Literature

Examines instructional methods/materials and pedagogical approaches appropriate for beginning to advanced string students in private studio, small ensemble, or large ensemble contexts. Topics may include group teaching strategies, as well as contemporary approaches including Rolland and Suzuki. Recommended prereqs., MUSC 2103 and 3163. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Music Education](#)

EMUS-3287 (1) Marching Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Music](#) | [Music Ensembles](#)

EMUS-3297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3307 (1) Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3317 (1) Campus Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3337 (1) Chamber Orchestra

College of Music | Music Ensembles

MUSC-3345 (2) Piano Pedagogy 1

Discusses teaching philosophies, objectives, and procedures. Examines and evaluates methods and materials. Studies practical aspects with which the private teacher is concerned. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

EMUS-3347 (1) Bell Ensemble

College of Music | Music Ensembles

MUSC-3355 (2) Piano Pedagogy 2

Materials and techniques for teaching piano with a focus on the intermediate level student. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered only in spring of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

EMUS-3357 (1) Harp Ensemble

College of Music | Music Ensembles

MUSC-3363 (2) Marching Band Techniques

Helps develop the skills needed to administer and teach all aspects of a contemporary high school marching band. Includes drill conception and design, instruction, organization, and administration. Prereqs., MUSC 2103 and EMUS 1287. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

EMUS-3367 (1) Early Music Ensembles

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

EMUS-3377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-3387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-3397 (1) Chamber Music Piano Duo

College of Music | Music Ensembles

EMUS-3407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-3417 (1) Percussion Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

EMUS-3427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3437 (1) Jazz Combo

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

MUSC-3444 (1) French Diction

Designed for the understanding of lyric French diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of French classical vocal literature. Prereq., MUSC 1554. Recommended prereq., MUSC 3464. Required of Junior BM voice majors. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-3445 (1) Practicum in Piano Teaching: Elementary Level

Provides practical experience teaching piano at the elementary and early intermediate levels under faculty supervision. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 3345, 3355. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

EMUS-3447 (1) Guitar Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

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EMUS-3457 (1) Electronic Music Ensemble

Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3464 (1) German Diction

Designed for the understanding of lyric German diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of German classical vocal literature. Prereq., MUSC 1554. Restricted to College of Music majors only. Required of sophomore BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Voice](#)

EMUS-3467 (1) World Music Ensemble

Same as EMUS 1467 and EMUS 5467. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Music](#) | [Music Ensembles](#)

EMUS-3477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 5477.

[College of Music](#) | [Music Ensembles](#)

EMUS-3507 (1) Chamber Music

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3517 (1) Campus Orchestra

May be repeated up to 12 total credit hours. Same as EMUS 1517. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

MUEL-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events, and people most important to its evolution. For nonmusic majors. Formerly EMUS 3642. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events and people most important to its evolution. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUEL-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course.

College of Music | Elective Music

MUSC-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course. Prerequisites: Restricted to sophomore non-College of Music majors only.

College of Music | Music | Musicology

MUSC-3802 (3) History of Music 1

Surveys Western art music with stylistic analysis of representative works from all major periods through the Baroque. See also MUSC 3812. Prereq., MUSC 2111. Prerequisites: Requires pre-requisite course of MUSC 2111. Restricted to Music majors or graduate students only.

College of Music | Music | Musicology

MUSC-3812 (3) History of Music 2

Surveys Western art music with stylistic analysis of representative works from all major periods after the Baroque. See also MUSC 3802. Prereq., MUSC 2111. Restricted to College of Music majors only. Prerequisites: Requires prerequisite course of MUSC 2111. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUEL-3822 (3) Words and Music

Explores the interaction between words and music in song. Students will consider how such features as rhyme, rhythm, tone, and the connotations of particular words contribute to meaning in poetry; how rhythm, tempo, dynamics, mood, and instrumentation contribute to meaning in music; and how words and music coalesce in song to make a new meaning. Restricted to non-College of Music majors only. Formerly EMUS 3822. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3832 (3) Music in Literature

Addresses literature that seeks either to explore the meaning of music or to make music out of words. Students will consider how musical concepts and techniques can be incorporated into poetry and prose, and will analyze the roles that writers have attributed to music in society, politics, and the life of the individual. Restricted to non-College of Music majors only. Formerly EMUS 3832. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-3872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explore, discuss, debate and develop deeper understanding of Heavy metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct area also discussed.

College of Music | Elective Music

MUSC-3997 (1) Junior Recital

Prereq., MUSC 2997. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theses and Recitals

MUSC-4001 (2) New Musical Styles and Practices

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered every other year. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4011 (2) 16th Century Counterpoint

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., Musc 2111 and 2131. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUEL-4012 (3-6) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Restricted to non-College of Music majors only. Formerly EMUS 4012. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-4012 (3) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including invention, suite, and fugue. Provides a foundation in species counterpoint; stresses analysis and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4031 (2) Jazz Arranging 1

Study of notation, score layout, transpositions, basic harmonic and melodic analysis, basic chord voicings, and composition for a small and large jazz ensemble. Use of notation software such as Finale or Sibelius. Prereqs., MUSC 2111 and 2131. Recommended prereq., MUSC 3081. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4041 (2) Orchestration

Studies advanced orchestration techniques through score analysis and student projects. Prereq., MUSC 2071 or instructor consent. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4061 (2) Tonal Analysis

Surveys tonal analytical techniques and forms of tonal music, including binary forms, sonata forms, ternary forms, rondo (and others) through study of selected works from the 18th and 19th centuries. Prereqs., MUSC 2111 and 2131. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4071 (2) Post-Tonal Theory and Analysis

Focus on theory and analysis of post-tonal literature pre-1945. Prereqs., MUSC 2111 and 2131. Offered every other fall. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition



Courses

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MUSC-4078 (1) Piano Technician for Pianists

Familiarizes pianists with the development of the modern grand piano, its construction, and the proper terminology of parts and specifications. Trains pianists in minor repairs and adjustments of the grand piano action, and in minor tuning tasks. Recommended restriction, piano majors. Restricted to College of Music majors only. Same as MUSC 5078. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Interdepartmental Courses](#)

MUEL-4081 (3) Introducton to Music Technology

Surveys the various tools and techniques in the field of music technology. Topics include an introduction to basic synthesis, musical instrument digital interface (MIDI) sequencing, audio sequencing, digital signal processing, music notation, and a historical perspective on electronic music. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUSC-4081 (3) Introduction to Music Technology

Topics include basic synthesis, musical instrument digital interface (MIDI) sequencing, and music notation by computer. Offered fall and spring. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-4091 (2) Jazz Arranging 2

Continuation and expansion of studies in MUSC 4031. Survey and analysis of major composers and arrangers of the idiom. Course focuses on creating several arranging projects for a large jazz ensemble. Prereq., MUSC 4031. Recommended prereq., MUSC 3081. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of

Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-4101 (1-3) Theory and Aural Skills Review

Reviews tonal harmony, voice leading, and essential aural skills. Includes diatonic triads and seventh chords, modulation, chromaticism, and structural analysis of representative compositions. Prepares graduate students for more advanced work in music theory. Students may register for aural skills only (1 credit), theory only (2 credits), or both theory and aural skills (3 credits). May not be taken pass/fail. For graduate students only. Offered summer and fall. Prerequisites: Restricted to College of Music graduate students only.

College of Music Music Theory and Composition

MUSC-4103 (1) Introduction to Student Teaching

Represents the first half of the professional internship year. Familiarizes students with the schools and music programs in which they plan to student teach. Music placements may consist of elementary and high school, elementary and middle school, or middle school and high school. Prereqs., MUSC 4113, 4313, or 4443; and EDUC 3023. Prerequisites: Requires prerequisite courses of MUSC 4113, 4313, or 4443 and EDUC 3023 or 4023. Restricted to College of Music undergraduate students only.

College of Music Music Music Education

PMUS-4105 (1) Supervised Accompanying

Assigned projects, both vocal and instrumental, are coached by collaborative piano faculty and others. May involve recital, jury, or master class performances. Prereq., MUSC 1325 and MUSC 2365 or instructor consent. Prerequisites: Requires pre-requisite course of MUSC 1325 and MUSC 2365). Restricted to Music majors or graduate students only.

College of Music Music Keyboard Musicianship

MUSC-4106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Choral and Instrumental Music

MUSC-4111 (2) Composing at the Computer

Discover strategies and techniques for generating and manipulating sound at the computer. Student projects will include compositions, soundscapes, ambient environments, and soundtracks for multimedia. Available to students without prior experience with computer music or composition. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-4112 (3) Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Prereq., MUSC 2772. Restricted to junior or senior College of Music majors only. Prerequisites: Requires pre-requisite class of MUSC 2772. Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4113 (3) Teaching General Music 2

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Prereqs., MUSC 2103 and 3133. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUEL-4121 (3) Topics in Music Technology

Exploration of issues, techniques and tools of music technology. Topics vary from term to term and may include: interactive system for performance, teaching, and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures and work sessions will support student projects. Prereqs., MUSC 4081 or MUEL 4081 or instructor consent required. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUSC-4121 (3) Topics in Music Technology

Exploration of issues, techniques, and tools of music technology. Topics vary from term to term and may include: interactive systems for performance; teaching and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures on work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4133 (3) Student Teaching Practicum

Offers practice teaching under the guidance of a master music teacher. Secondary level. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4137 (1) Opera Theatre 1

Addresses issues related to young artist development. Areas of concentration include (but are not limited to) acting technique, resume preparation, audition technique, scene analysis, and role preparation. The acting technique is addressed in this course through textbook reading and exercise. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-4142 (3) American Indian Music

Examines Native North American musical cultures, with an emphasis on music as an integral part of religious expression and community life. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4143 (2) Developing Children's Choirs

Examines the musical skills, teaching techniques, and administrative procedures necessary for developing a children's choir. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5143. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4147 (1) Opera Theatre 2

Continuation of PMUS 4137. Further scene analysis and movement exercises are addressed in this class. May be repeated up to 12 total credit hours. Prereq., PMUS 4137. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-4152 (3) East Asian Music

Surveys the development of music in Japan, China and Korea through the in-depth study of particular styles of traditional music. The course emphasizes the study of music and culture, particularly music's relationship to religion, politics, language, literature, dance and theatre. Recommended prereq., MUSC 2772. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4153 (1) Percussion Class and Pedagogy

Required of all music education majors. Presents knowledge and skills necessary for music educators to teach young students, including a general understanding of the techniques used in playing and teaching percussion instruments in the school music program. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4157 (1-3) Opera Practicum

Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-4163 (2) Choral Literature for School Ensembles

Examination of literature, materials, and methods appropriate for teaching choral music in secondary schools. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4167 (1-3) Opera Theatre Lab

Advanced work in the scenery, property, costume, and electrical shops in opera performance. Additional experiences may include positions with opera run crews, the box office, or other supporting areas. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-4168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Recommended prereqs., MUSC 2772 or 2782 or 4112. Same as MUSC 5168. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Theory and Composition

MUSC-4191 (2) Advanced Recording

Study of advanced recording techniques and concepts beyond those covered in MUSC 2091 involving multiple microphones for ensemble concerts and recording sessions within and outside of the College of Music. Prereq., MUSC 2091. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition



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MUSC-4193 (1) Student Teaching Seminar

Required for all music student teachers. Addresses topics of concern to beginning teachers including classroom management, interpersonal skills, legal issues, job search strategies, and teaching portfolio development. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-4203 (1) Music Methods Practicum

Taken concurrently with either MUSC 4113, 4313, or 4443. Provides students with opportunities to observe and practice the use of various teaching techniques and relate them to concepts presented in the methods course. Students consult with the instructor to determine appropriate placements in schools. Prereq., MUSC 2103. Coreq., MUSC 4113, 4313, or 4443. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-4255 (2) Service Playing Techniques

Study of church music for liturgical and non-liturgical denominations; includes hymn playing, anthem accompaniments, basics of conducting from the organ console and improvisation, and selection of organ music appropriate to the requirements of the church year and other special services. Same as MUSC 5255.

[College of Music](#) [Music](#) [Keyboard](#)

MUSC-4285 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4295. Same as MUSC 5285.

College of Music | Music | Keyboard

MUSC-4288 (2-3) Macintosh-based Web Server Fundamentals for Musicians and Educators

Designed for music students. Teaches concepts and skills necessary to develop, host, and maintain Macintosh-based web servers and to create and serve multimedia files including video, MP3, MIDI, and PDF.

College of Music | Music | Interdepartmental Courses

MUSC-4295 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4285. Same as MUSC 5295.

College of Music | Music | Keyboard

MUSC-4313 (3) Teaching Choral Music

Examines choral music curricula, instructional materials, and teaching techniques appropriate for secondary choral settings. Also addresses administrative strategies for choral music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5313. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4325 (2) Keyboard Literature 1

Surveys keyboard music from 1600 to 1830. Restricted to College of Music majors only. Offered fall semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-4335 (2) Keyboard Literature 2

Surveys keyboard music from 1830 to the present. Restricted to College of Music majors only. Offered spring semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

TMUS-4403 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. May be repeated

for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Thesis Music

MUSC-4405 (2) Basso-Continuo Accompaniment

Studies the history, theory, and practice of Basso-continuo accompaniment. Provides practical instruction in realizing harmony from a given bass line (figured or unfigured), projecting affect, and creating dynamics at the harpsichord. Emphasizes individual cognition and creativity. Recommended prereqs., MUSC 2325 and PMUS 1586. Same as MUSC 5405. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Keyboard

MUSC-4443 (3) Teaching Instrumental Music

Examines instrumental music curricula, instructional materials, and teaching techniques appropriate for rehearsal, class, and lesson settings. Also addresses administration strategies for instrumental music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5442. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Music Education

TMUS-4493 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. Numbered TMUS 4403--4493. May be repeated for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Thesis Music

PMUS-4497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. May be repeated up to 12 credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music Music Voice

PMUS-4517 (2) Orchestral Repertoire

Trains practice techniques for String Players to master orchestral excerpts needed for all orchestra and festival auditions. Through careful listening students learn to improve the four basic elements of orchestral excerpt preparation: Rhythm, Intonation, Tone Quality, Interpretation. Prerequisites: Restricted to Music majors or graduate students only.

College of Music Music Choral and Instrumental Music

MUSC-4583 (2) Inclusive Music Classroom

Surveys strategies necessary for teaching music to all students, including those with special needs. Offered fall of even-numbered years. Prereqs., MUSC 2103 and 3133. Recommended prereq., MUSC 4113. Restricted to College of Music majors only. Same as MUSC 5583. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4608 (1) Advanced Studies in the Alexander Technique

Continue of MUSC 2608 with greater concentration on utilizing Alexander principles in specialized activity. Prereq., MUSC 2608 or instructor consent. Prerequisites: Requires prerequisite course of MUSC 2608. Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-4712 (3) Renaissance Music

Provides repertory and analysis of polyphonic music 1400-1600. Prereq., MUSC 3802. Restricted to College of Music majors only. Same as MUSC 5712. Prerequisites: Requires pre-requisite class of MUSC 3802. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Prereq., MUSC 3812. Restricted to College of Music majors only. Same as MUSC 5772. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4802 (3) Studies in 20th Century Music

Offers intensified work in history of music in the 20th century. Topics vary from year to year. Prereq., MUSC 3812. Restricted to junior or senior College of Music majors only. Same as MUSC 5802. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature. Prereq., MUSC 3812 or instructor consent.

Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4872 (3) Late 18th and 19th Century Music

Examines music and writings about music during the Classic and Romantic eras of the Western tradition, 1750-1900. Emphasizes historical and stylistic analysis and current musicological research. Recommended prereq. or coreq., MUSC 3812. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4892 (3) Latin American Music

Explores music of cultures south of the United States, emphasizing the relationships of music and culture in folk, popular, and art styles. Same as MUSC 5892. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Entrepreneurship



Courses

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MUSC-4957 (1-4) Senior Thesis

Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#)
[Music](#)
[Theses and Recitals](#)

MUSC-4958 (2) Community Performances

Designed for the aspiring professional performer. Through classroom theory and off-campus application, acquire skills in programming for and communicating with diverse audiences, marketing & PR, and new paradigms of concert presentation. Will result in an actual musical presentation in the community. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 5988.

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MUSC-4997 (1) Senior Recital

Prereq., MUSC 3997. Prerequisites: Requires pre-requisite class of MUSC 3997. Restricted to College of Music undergraduate students only.

College of Music | Music | Theses and Recitals

MUSC-5002 (3) Proseminar in Historical Musicology

Prepares students to pursue independent research in the history of music. Meeting as a seminar, the course focuses on the nature of evidence, methods and tools of research, and theoretical or historiographic issues. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5011 (2) 16th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including FREE, TWO- and THREE-part imitative counterpoint in the style of Palestrina. Provides a foundation in species counterpoint, working towards free counterpoint; stresses analysis and composing in 16th-century styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5012 (3) West African Music and Dance

Studies musical and dance traditions and current practices. Prereq., MUSC 4012 or instructor consent. Same as DNCE 5054. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including INVENTION, SUITE, and FUGUE. Provides a foundation in species counterpoint; stresses analysis and composing in the styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5026 (2) Percussion Literature

In-depth investigation of major original solo works for percussion, significant ensemble literature including chamber and large ensembles, and selected transcriptions. Prereqs., graduate standing in music and instructor consent.

College of Music | Music | Choral and Instrumental Music

MUSC-5036 (2) Brass Literature

Investigates major original solo works for trumpet, horn, trombone, euphonium, and tuba, and ensemble literature including chamber and large settings. Offered every other spring semester.

College of Music | Music | Choral and Instrumental Music

MUSC-5041 (2) Advanced Orchestration

Provides an advanced study of orchestration techniques through score analysis and student projects. Offered fall only.

College of Music | Music | Theory and Composition

MUSC-5061 (3) Advanced Tonal Analysis

Surveys tonal analytical techniques. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5071 (3) Post-tonal Theory and Analysis I

Focuses on theory and analysis of post-tonal literature pre-1945. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall and every other spring. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5078 (1) Piano Technician for Pianists

Same as MUSC 4078. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Interdepartmental Courses

MUSC-5081 (3) Applications in Music Technology

Presents advanced strategies for applying computer technology in several musical disciplines. Emphasizes the use of technology in composition, music theory, and music education. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5091 (3) Contemporary Jazz Theory

Studies contemporary approaches to jazz improvisation and composition. Analysis of innovative composition and improvisation and strategies for integration of the material into a personal vocabulary are explored. Prereq., MUSC 3081. Offered spring only.

College of Music | Music | Theory and Composition

MUSC-5103 (3) Teaching General Music

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-5106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. For graduate students. Same as MUSC 4106.

College of Music | Music | Choral and Instrumental Music

MUSC-5112 (3) Proseminar in Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Restricted to graduate students who have passed or remediated the World Music portion of their Musicology preliminary exams. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5121 (3) Advanced Topics in Music Technology

Conducts advanced research in techniques and tools of music technology. Topics vary from term to term and may include: user interfaces for computer music; advanced sound design; digital modeling of acoustic sounds; computer-aided analysis of sound; modeling music intelligence in real time. Lectures and work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 5081 or instructor consent required.

College of Music | Music | Theory and Composition

MUSC-5136 (2) Advanced Conducting

Offers advanced work in conducting. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

PMUS-5137 (2) Opera Theatre 1

Addresses issues related to young artist development at the graduate level. Areas of concentration will include (but are not limited to) acting technique for singers, resume preparation and scene and character analysis. Students will participate in acting and improvisation exercises. Substantial classical voice study is required and this course is recommended for voice majors only. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) | [Music](#) | [Voice](#)

MUSC-5142 (3) American Indian Music

Examines Native North American musical cultures, emphasizing music as an integral part of religious expression and community life. Restricted to graduate music majors. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) | [Music](#) | [Musicology](#)

MUSC-5143 (2) Developing Children's Choirs

Restricted to College of Music graduate students only. Same as MUSC 4143. Prerequisites: Restricted to College of Music graduate students only.

[College of Music](#) | [Music](#) | [Music Education](#)

PMUS-5147 (2) Opera Theatre 2

Continuation of PMUS 5137. May be repeated up to 12 total credit hours. Prereq., PMUS 5137.

[College of Music](#) | [Music](#) | [Voice](#)

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MUSC-7203 (3) Doctoral Seminar in Music Education

Provides an advanced study of topics central to the music education profession. Requires class presentations and a major paper or project. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

[College of Music](#) | [Music](#) | [Music Education](#)

MUSC-7801 (3) Doctoral Seminar in Music Theory

Provides advanced study in theory. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires a major paper or project. Restricted to Music (MUSD) graduate students only. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Prerequisites: Restricted to Music (MUSD) graduate students only.

[College of Music](#) | [Music](#) | [Theory and Composition](#)

MUSC-7822 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. Restricted to MUSD majors. See also MUSC 7832. Offered fall only. Prerequisites: Restricted to Music (MUSD) graduate students only.

[College of Music](#) | [Music](#) | [Musicology](#)

MUSC-7832 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. See also MUSC 7822. Offered spring only.

College of Music | Music | Musicology

TMUS-8019 (1) Precandidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8029 (1) Candidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8119 (1-4) Composition Project 1

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Restricted to DMA composition students. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8129 (1-4) Composition Project 2

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Prereq., TMUS 8119. Restricted to DMA composition students. May be repeated up to 4 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8219 (3) Dissertation Project 1 (Solo Recital, Choral Concert, Composition)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8229 (3) Dissertation Project 2 (Solo Recital, Choral Concert, Composition, Vocal Pedagogy)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8239 (3) Diss Proj 3 (Chamber Music Recital, Vocal Pedagogy Project, Choral Project, Composition Recital)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8249 (3) Diss Proj 4 (Chamber Music Recital, Choral Project, Composition Recital, Wind/Percussion Practicum).

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8259 (3) Dissertation Project 5 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8269 (3) Dissertation Project 6 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8279 (1-3) Performance Research Document 1

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8289 (1) Performance Research Document 2

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8299 (1) Performance Research Document 3

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8309 (1) Performance Research Document 4

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8319 (3) Repertoire Project

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8329 (2-6) Document/Pedagogy Project

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8339 (3-6) Major Composition

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8998 (1-10) PhD Thesis

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music



Courses

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AIRR-1010 (1) Foundations of the United States Air Force 1

One 1-hour lecture and one 2-hour lab per week. Introduces students to the U.S. Air Force and the USAF officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officership qualities, and military customs and courtesies. Emphasizes the communication skills necessary for an Air Force officer.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

NAVR-1010 (2) Introduction to Naval Science

Introduces the structure, missions, and functions of the United States Navy and Marine Corps. Also covers military law, leadership, naval history, and concepts of sea power.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Naval Science](#)

MILR-1011 (2) Adventures in Leadership 1

Introduces fundamentals of leadership and the United States Army. Examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. Includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Military Science \(U.S. Army\)](#)

AIRR-1020 (1) Foundations of the United States Air Force 2

A continuation of AIRR 1010-1. One 1-hour lecture and one 2-hour lab per week.

Cross College Programs Reserve Office Training Corp Air Force Aerospace Studies

MILR-1021 (2) Adventures in Leadership 2

Continues the investigation of leadership in small organizations. Covers selected topics such as basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. Introduces students to effective military writing styles.

Cross College Programs Reserve Office Training Corp Military Science (U.S. Army)

AIRR-2010 (1) The Evolution of USAF Air and Space Power 1

One 1-hour lecture and one 2-hour lab per week. Studies air power from balloons and dirigibles through the jet age and historically reviews air power employment in military and nonmilitary operations in support of national objectives. Looks at the evolution of air power concepts and doctrine and introduces the development of communicative skills.

Cross College Programs Reserve Office Training Corp Air Force Aerospace Studies

AIRR-2020 (1) The Evolution of USAF Air and Space Power 2

a continuation of Airr 2010. One 1-hour lecture and one 2-hour lab per week.

Cross College Programs Reserve Office Training Corp Air Force Aerospace Studies

NAVR-2020 (3) Seapower and Maritime Affairs

Studies the importance of seapower in history including naval, maritime, and other commercial uses of the sea. Emphasizes significant milestones in the history of the U.S. Navy and Marine Corps and their role in the national strategies and policies of the United States.

Cross College Programs Reserve Office Training Corp Naval Science

MILR-2031 (3) Methods of Leadership and Management 1

Comprehensively reviews advanced leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

MILR-2041 (3) Methods of Leadership and Management 2

Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continue to refine communication skills.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

AIRR-3010 (3) Air Force Leadership Studies I

Two 1 1/2-hour seminars plus one 2-hour lab per week. Provides an integrated management course emphasizing concepts and skills required by the successful manager and leader. Includes individual motivational and behavioral processes, leadership, communication, and group dynamics while providing foundation for the development of the junior officer's professional skills (officership). Emphasizes decision making and use of analytic aids in planning, organizing and controlling in a changing environment. Discusses organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics within the context of military organization. Uses actual Air Force case studies throughout the course to enhance the learning and communication process.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

AIRR-3020 (3) Air Force Leadership Studies II

Two 1 1/2-hour seminars and one 2-hour lab per week. Continuation of AIRR 3010. Emphasizes basic managerial processes while employing group discussions, case studies, and role playing as learning devices. Continues to emphasize the development of communicative skills.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

NAVR-3020 (3) Naval Operations and Seamanship

Examines the Inland and International Rules of the Nautical Road, including court interpretations, principles of relative motion and vector analysis with the maneuvering board, ship handling procedures, weather, communications, tactical operations, and maritime law.

Cross College Programs | Reserve Office Training Corp | Naval Science

NAVR-3030 (3) Naval Engineering Systems

Studies in detail ship propulsion and related auxiliary systems. Emphasizes fossil fuel and nuclear steam and gas turbine systems. Stresses design constraints imposed by unique marine environment.

Cross College Programs | Reserve Office Training Corp | Naval Science

NAVR-3040 (3) Weapons and Systems Analysis

Introduces theoretical concepts upon which modern naval weapons systems are designed and constructed. Specific areas of study include physics of underwater sound propagation, pulse radar theory, automatic tracking principles, and fundamentals of missile guidance.

Cross College Programs Reserve Office Training Corp Naval Science

MILR-3052 (3) Military Operations and Training 1

Further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. Involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Prereq., consent of the Professor of Military Science.

Cross College Programs Reserve Office Training Corp Military Science (U.S. Army)

MILR-3062 (3) Military Operations and Training 2

Studies theoretical and practical applications of small unit leadership principles. Focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. Exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Prereq., consent of the Professor of Military Science.

Cross College Programs Reserve Office Training Corp Military Science (U.S. Army)

NAVR-3101 (3) Evolution of Warfare

Traces the development of warfare, focusing on the impact of military theorists and technical developments. Assists students to acquire a sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedent on military actions.

Cross College Programs Reserve Office Training Corp Naval Science

AIRR-4010 (3) National Security Affairs/Preparation for Active Duty

Two 1 1/2-hour seminars and one 2-hour lab per week. Studies U.S. national security policy which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. Also includes blocks of instruction on the military profession/officership, the military justice system, and communicative skills. Provides future Air Force officers with the background of U.S. national security policy so they can effectively function in today's Air Force.

Cross College Programs Reserve Office Training Corp Air Force Aerospace Studies

NAVR-4010 (3) Leadership and Management 1

Comprehensively studies organizational leadership. Emphasizes motivation, communication, empowerment, and needs of subordinates. Studies the role of professional and personal ethics in organizational leadership.

Cross College Programs Reserve Office Training Corp Naval Science

AIRR-4020 (3) National Security Forces in Contemporary American Society 2

Two 1 1/2-hour seminars and one 2-hour lab per week. a continuation of AIRR 4010. Includes defense strategy conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communication skills.

Cross College Programs Reserve Office Training Corp Air Force Aerospace Studies

NAVR-4020 (3) Leadership and Ethics

Studies the ethics and laws of armed conflict, analyzing the leadership responsibilities of officers in conflict. Studies the military justice system and Naval legal administrative procedures, comparing military law with civilian criminal and civil law. Defines the responsibilities of junior officers within the military justice system.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4030 (3) Navigation

Offers theory and practical application in the art of navigation: charts, publications, piloting, dead reckoning, navigation aids and instruments, time, sextant use, electronic fixing, global positioning system, and voyage planning.

Cross College Programs Reserve Office Training Corp Naval Science

MILR-4072 (3) Officer Leadership and Development 1

Examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. Includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. Also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. Conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Prereq., consent of the Professor of Military Science.

Cross College Programs Reserve Office Training Corp Military Science (U.S. Army)

MILR-4082 (3) Officer Leadership and Development 2

Continues Milr 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. Also examines varied topics such as theory and practice of the military justice system, law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Prereq., consent of the Professor of Military Science.

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AIRR-1010 (1) Foundations of the United States Air Force 1

One 1-hour lecture and one 2-hour lab per week. Introduces students to the U.S. Air Force and the USAF officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officership qualities, and military customs and courtesies. Emphasizes the communication skills necessary for an Air Force officer.

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AIRR-1020 (1) Foundations of the United States Air Force 2

A continuation of AIRR 1010-1. One 1-hour lecture and one 2-hour lab per week.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

AIRR-2010 (1) The Evolution of USAF Air and Space Power 1

One 1-hour lecture and one 2-hour lab per week. Studies air power from balloons and dirigibles through the jet age and historically reviews air power employment in military and nonmilitary operations in support of national objectives. Looks at the evolution of air power concepts and doctrine and introduces the development of communicative skills.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

AIRR-2020 (1) The Evolution of USAF Air and Space Power 2

a continuation of Airr 2010. One 1-hour lecture and one 2-hour lab per week.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

AIRR-3010 (3) Air Force Leadership Studies I

Two 1 1/2-hour seminars plus one 2-hour lab per week. Provides an integrated management course emphasizing concepts and skills required by the successful manager and leader. Includes individual motivational and behavioral processes, leadership, communication, and group dynamics while providing foundation for the development of the junior officer's professional skills (officership). Emphasizes decision making and use of analytic aids in planning, organizing and controlling in a changing environment. Discusses organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics within the context of military organization. Uses actual Air Force case studies throughout the course to enhance the learning and communication process.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

AIRR-3020 (3) Air Force Leadership Studies II

Two 1 1/2-hour seminars and one 2-hour lab per week. Continuation of AIRR 3010. Emphasizes basic managerial processes while employing group discussions, case studies, and role playing as learning devices. Continues to emphasize the development of communicative skills.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

AIRR-4010 (3) National Security Affairs/Preparation for Active Duty

Two 1 1/2-hour seminars and one 2-hour lab per week. Studies U.S. national security policy which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. Also includes blocks of instruction on the military profession/officership, the military justice system, and communicative skills. Provides future Air Force officers with the background of U.S. national security policy so they can effectively function in today's Air Force.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

AIRR-4020 (3) National Security Forces in Contemporary American Society 2

Two 1 1/2-hour seminars and one 2-hour lab per week. a continuation of AIRR 4010. Includes defense strategy conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communication skills.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

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NAVR-1010 (2) Introduction to Naval Science

Introduces the structure, missions, and functions of the United States Navy and Marine Corps. Also covers military law, leadership, naval history, and concepts of sea power.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Naval Science](#)

NAVR-2020 (3) Seapower and Maritime Affairs

Studies the importance of seapower in history including naval, maritime, and other commercial uses of the sea. Emphasizes significant milestones in the history of the U.S. Navy and Marine Corps and their role in the national strategies and policies of the United States.

[Cross College Programs](#)
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[Naval Science](#)

NAVR-3020 (3) Naval Operations and Seamanship

Examines the Inland and International Rules of the Nautical Road, including court interpretations, principles of relative motion and vector analysis with the maneuvering board, ship handling procedures, weather, communications, tactical operations, and maritime law.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Naval Science](#)

NAVR-3030 (3) Naval Engineering Systems

Studies in detail ship propulsion and related auxiliary systems. Emphasizes fossil fuel and nuclear steam and gas turbine systems. Stresses design constraints imposed by unique marine environment.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-3040 (3) Weapons and Systems Analysis

Introduces theoretical concepts upon which modern naval weapons systems are designed and constructed. Specific areas of study include physics of underwater sound propagation, pulse radar theory, automatic tracking principles, and fundamentals of missile guidance.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-3101 (3) Evolution of Warfare

Traces the development of warfare, focusing on the impact of military theorists and technical developments. Assists students to acquire a sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedent on military actions.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4010 (3) Leadership and Management 1

Comprehensively studies organizational leadership. Emphasizes motivation, communication, empowerment, and needs of subordinates. Studies the role of professional and personal ethics in organizational leadership.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4020 (3) Leadership and Ethics

Studies the ethics and laws of armed conflict, analyzing the leadership responsibilities of officers in conflict. Studies the military justice system and Naval legal administrative procedures, comparing military law with civilian criminal and civil law. Defines the responsibilities of junior officers within the military justice system.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4030 (3) Navigation

Offers theory and practical application in the art of navigation: charts, publications, piloting, dead reckoning, navigation aids and instruments, time, sextant use, electronic fixing, global positioning system, and voyage planning.

Cross College Programs | Reserve Office Training Corp | Naval Science

NAVR-4101 (3) Amphibious Warfare

Surveys the development of amphibious doctrine. Emphasizes the evolution of amphibious warfare in the 20th century and beyond. Explores present-day potential and limitations on amphibious operations, including the rapid force deployment concept.

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MILR-1011 (2) Adventures in Leadership 1

Introduces fundamentals of leadership and the United States Army. Examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. Includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Military Science \(U.S. Army\)](#)

MILR-1021 (2) Adventures in Leadership 2

Continues the investigation of leadership in small organizations. Covers selected topics such as basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. Introduces students to effective military writing styles.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Military Science \(U.S. Army\)](#)

MILR-2031 (3) Methods of Leadership and Management 1

Comprehensively reviews advanced leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Military Science \(U.S. Army\)](#)

MILR-2041 (3) Methods of Leadership and Management 2

Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continue to refine communication skills.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

MILR-3052 (3) Military Operations and Training 1

Further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. Involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Prereq., consent of the Professor of Military Science.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

MILR-3062 (3) Military Operations and Training 2

Studies theoretical and practical applications of small unit leadership principles. Focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. Exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Prereq., consent of the Professor of Military Science.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

MILR-4072 (3) Officer Leadership and Development 1

Examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. Includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. Also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. Conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Prereq., consent of the Professor of Military Science.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

MILR-4082 (3) Officer Leadership and Development 2

Continues Milr 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. Also examines varied topics such as theory and practice of the military justice system, law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Prereq., consent of the Professor of Military Science.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

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AIRR-1010 (1) Foundations of the United States Air Force 1

One 1-hour lecture and one 2-hour lab per week. Introduces students to the U.S. Air Force and the USAF officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officership qualities, and military customs and courtesies. Emphasizes the communication skills necessary for an Air Force officer.

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NAVR-1010 (2) Introduction to Naval Science

Introduces the structure, missions, and functions of the United States Navy and Marine Corps. Also covers military law, leadership, naval history, and concepts of sea power.

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MILR-1011 (2) Adventures in Leadership 1

Introduces fundamentals of leadership and the United States Army. Examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. Includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics.

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AIRR-1020 (1) Foundations of the United States Air Force 2

A continuation of AIRR 1010-1. One 1-hour lecture and one 2-hour lab per week.

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ATLS-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as CSCI 1220.

[Cross College Programs](#) [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as CSCI 1240.

[Cross College Programs](#) [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-1710 (3) Tools and Methods for Engineering Computing

Designed for students with little or no programming background. Students learn procedural and object-oriented programming through development of games, simulations, and animations using Flash/Actionscript, VB/Excel, Java, MATLAB, and real-world applications. Activities are oriented toward smaller projects that address topics in beginning science, engineering, and mathematics courses. Students gain practical, applicable skills. Same as APPM 1710.

[Cross College Programs](#) [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-2000 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ENGL 2036.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3010 (3) Digital Media 1

Introduces techniques, software, and related concepts of digital design and image making through individual and group projects. Emphasizes digital animation, digital audio, digital video and website design and development as a means to formal and expressive ends. Introduces students to critical readings and theories related to digital media practice. May be repeated up to 6 total credit hours. Prereq., ATLS 2000. Restricted to TAM students.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3020 (3) Digital Media 2

A continuation of Digital Media 1 (ATLS 3010), this course introduces students to advanced digital media development including interactive programming, scripting, and database functionality. Emphasizes a historical and conceptual understanding of programming and computational theories. May be repeated for a total of 6 credit hours. Prereq., ATLS 2000 and ATLS 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3030 (3) Fundamentals of Digital Design

The fundamental goal of this course is to teach students how to use digital design tools effectively and compellingly. Through lectures, class discussions, projects and critiques, this course will cover the critical, theoretical, and technical skill sets necessary to become a more engaging, thoughtful, and articulate designer. Prereqs., ATLS 2000 and 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3110 (3) Motion Design

An animation-based projects course that advances student understanding of motion design in today's culture. Through active production and critical analysis, students will create new media

projects and critically examine the history, social implications, and impacts of these forms of mass media. Prereq., ATLS 2000. Recommended prereq., ATLS 3010.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3112 (1-3) Digital and Social Systems Professional Development

Supports students in developing professional skills and practices in human computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as CSCI 3112.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3120 (3) Net Presence

An Internet-based projects course that advances student understanding of Internet culture. Through active production and critical analysis, students will explore their individual roles in the digital landscape and critically examine the social implications and impacts of digital communities. Prereqs., ATLS 2000 and 3010. Recommended prereq., ATLS 3020.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3500 (1-3) Client Projects in Technology, Arts and Media

Allows undergraduate students to work on collaborative projects with faculty and with external organizations under faculty supervision. The course will focus on teamwork, conceptual planning, technical design and development, and working within real-world client environments. Critical skills include project research, planning, design, development, trouble-shooting, and presentation. Prereqs., ATLS 2000, 3010, or instructor consent. Recommended prereq., ATLS 3020. May be repeated up to 6 total credit hours.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3519 (1-3) Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 12 total credit hours for different topics. Prereq., ATLS 2000. Recommended prereq., ATLS 3010. Same as ATLS 3519, 5519 and 6519.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-4010 (3) Capstone Projects

The focus of this advanced practicum course is the development of an individual thesis project. Specific class sessions will feature a combination of lectures, demonstrations, guest speakers, lab sessions, and critiques. This course also entails group work, portfolio development, critical theoretical readings, and a significant written component. May be repeated up to 6 total credit hours. Prereqs., ATLS 2000, 3010, and 3020. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-4519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 9 total credit hours. Prereq., instructor consent. Recommended prereqs., ATLS 2000, ATLS 3010, and ATLS 3020. Same as ATLS 3519, 5519 and 6519.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-4809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-4900 (1-6) Undergraduate Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on research or a creative project guided by faculty. May be repeated up to 9 total credit hours. Prereqs., ATLS 3010, 3020, and consent of instructor.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5150 (1) Managing Effectively in a Changing Telecommunications Environment

Provides students with an opportunity to join international managers and policy makers from around the world in an intensive seminar focused on the challenges of managing in a telecommunications environment in an era of technological change. Guest lecturers provide an effective overview of the cutting-edge issues managers face in telecom and technology companies around the world. TLEN 5150 and ATLS 5150 are the same course.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5210 (3) Global Development I

Introduces students to the theories and policy of international development. The course will examine the role of multilateral agencies, foundations, aid organizations, corporate entities and academia in development as both an industry and a research field. The course will focus on development movements and their outcomes, the inter-related nature of development and its effect on policies and programs, and critiques. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5220 (3) Global Development II

Explores the impact of economic, geographical and social/cultural conditions on development outcomes through standalone course components taught by subject matter experts in region and in residency at ATLAS. Components may include, but are not limited to, development economics, environmental sustainability, public health, climate change, globalization and migration, religion, and gender as these broad themes relate to development. Prereq., ATLS 5210. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5230 (3) Case Studies in Information and Communication Technology for Development

Serves as foundation course for MS-ICTD program. Students will evaluate case studies across a range of technologies and applications. Students will learn how to match available technologies to human and environmental needs and resources, be introduced to the seminal work and leaders in the field, and discuss the future of ICTD as an emerging area of academic focus. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5240 (3) Information and Communication Technology for Development Laboratory

Prepares students for the semester-long practicum. Students work in teams to design ICTD interventions that address unique socio-economic and environmental development issues. Teams will design a variety of ICTD interventions, including telehealth and distance education programs, communication networks, and pro-development ICTD policies. Topics will be chosen by teams and guided by program faculty and external domain experts. Prereq., ATLS 5230. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5250 (3) Fieldwork Methods for ICTD Practitioners

Introduces methods and models that can be employed in ICTD program development and deployment. Examines the applications of participatory research, value-centric design, program scale, cross-disciplinary work, and appropriate monitoring and evaluation. The goal of this course is to build student confidence around existing evaluation toolkits and methods, while advancing multi-method approaches to designing and analyzing ICTD initiatives. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5610 (6) Startup Practicum

Presumes that entrepreneurship can be learned through the conception, build, and launch of an original product or service by student teams within a single semester. Immerses students in the daily leadership and innovation challenges of the startup environment and serves as a clinic in thinking, decision making and mental agility that will benefit any area of business--not just startups. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

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Courses

Search by College, Department & Category

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PRLC-1810 (3) Ethical Leadership

Introduces fundamental principles of leadership and ethics. Emphasizes application of the principles for self-development and organizational effectiveness. Approved for arts and sciences core curriculum: ideals and values.

[Cross College Programs](#)
[Leadership Residential Academic Program](#)

PRLC-1820 (3) Community Issues in Leadership

Explores challenges to leadership at the community level such as drug abuse, poverty, decline of infrastructure, care of the aged, etc. Gives particular attention to the development of effective leadership responses to community difficulties at university, city, state, and national levels. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[Cross College Programs](#)
[Leadership Residential Academic Program](#)

PRLC-2810 (3) Global Issues in Leadership

Examines the challenges of leadership posed by change and major global issues affecting everyone. Explores issues such as human rights, hunger, disease, large-scale collective violence, and environmental deterioration with a special emphasis on effective, long-term leadership strategies.

[Cross College Programs](#)
[Leadership Residential Academic Program](#)

PRLC-2820 (3) Multilevel Issues in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with a special emphasis on leadership and ethical implications. Same as LDSP 2820.

Cross College Programs | Leadership Residential Academic Program

PRLC-2930 (3) Leadership Internship

Students analyze the leadership styles within a host organization, examine how successfully an organization fulfills its mission, and further refine their own theories of what constitutes effective leadership. Students also complete a meaningful project over the course of the internship. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

Cross College Programs | Leadership Residential Academic Program

PRLC-3810 (3) Global Issues in Leadership

Examines the challenges to leadership posed by major global issues. Problems in the areas of human rights, hunger, disease, large-scale collective violence, and environmental deterioration are explored with a special emphasis on the development of effective, long-term leadership strategies. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

Cross College Programs | Leadership Residential Academic Program

PRLC-4010 (4) 21st Century Leadership

An advanced course that focuses on critical analysis of leadership principles and techniques. Designed to provide theoretical and hands-on experience for individuals who wish to function in leadership roles at high levels of competence in the workplace and in the civic arena.

Cross College Programs | Leadership Residential Academic Program

PRLC-4081 (3) Icons of the American Republic

Examines the founding period of the United States through the events, political concepts and individuals depicted in the art exhibited in the U.S. Capitol Building in Washington, D.C. The course includes a visit to the U.S. Capitol Building, the floor of the U.S. House of Representatives, the floor of the U.S. Senate, and an exploration of the legislative process. Prereq., PSCI 1101 or 2012 or 2223 or 2004. Restricted to students with a minimum 3.4 GPA and 60 credit hours completed. PSCI 4081 and PRLC 4081 are the same course.

Cross College Programs | Leadership Residential Academic Program



MILR-1021 (2) Adventures in Leadership 2

Continues the investigation of leadership in small organizations. Covers selected topics such as basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. Introduces students to effective military writing styles.

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ATLS-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as CSCI 1220.

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ATLS-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as CSCI 1240.

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ATLS-1710 (3) Tools and Methods for Engineering Computing

Designed for students with little or no programming background. Students learn procedural and object-oriented programming through development of games, simulations, and animations using Flash/Actionscript, VB/Excel, Java, MATLAB, and real-world applications. Activities are oriented toward smaller projects that address topics in beginning science, engineering, and mathematics courses. Students gain practical, applicable skills. Same as APPM 1710.

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PRLC-1810 (3) Ethical Leadership

Introduces fundamental principles of leadership and ethics. Emphasizes application of the principles for self-development and organizational effectiveness. Approved for arts and sciences core curriculum: ideals and values.

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PRLC-1820 (3) Community Issues in Leadership

Explores challenges to leadership at the community level such as drug abuse, poverty, decline of infrastructure, care of the aged, etc. Gives particular attention to the development of effective leadership responses to community difficulties at university, city, state, and national levels. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

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ATLS-2000 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course.

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AIRR-2010 (1) The Evolution of USAF Air and Space Power 1

One 1-hour lecture and one 2-hour lab per week. Studies air power from balloons and dirigibles through the jet age and historically reviews air power employment in military and nonmilitary operations in support of national objectives. Looks at the evolution of air power concepts and doctrine and introduces the development of communicative skills.

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AIRR-2020 (1) The Evolution of USAF Air and Space Power 2

a continuation of Airr 2010. One 1-hour lecture and one 2-hour lab per week.

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NAVR-2020 (3) Seapower and Maritime Affairs

Studies the importance of seapower in history including naval, maritime, and other commercial uses of the sea. Emphasizes significant milestones in the history of the U.S. Navy and Marine Corps and their role in the national strategies and policies of the United States.

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MILR-2031 (3) Methods of Leadership and Management 1

Comprehensively reviews advanced leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization.

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ATLS-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ENGL 2036.

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MILR-2041 (3) Methods of Leadership and Management 2

Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continue to refine communication skills.

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PRLC-2810 (3) Global Issues in Leadership

Examines the challenges of leadership posed by change and major global issues affecting everyone. Explores issues such as human rights, hunger, disease, large-scale collective violence, and environmental deterioration with a special emphasis on effective, long-term leadership strategies.

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PRLC-2820 (3) Multilevel Issues in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with a special emphasis on leadership and ethical implications. Same as LDSP 2820.

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PRLC-2930 (3) Leadership Internship

Students analyze the leadership styles within a host organization, examine how successfully an organization fulfills its mission, and further refine their own theories of what constitutes effective leadership. Students also complete a meaningful project over the course of the internship. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

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AIRR-3010 (3) Air Force Leadership Studies I

Two 1 1/2-hour seminars plus one 2-hour lab per week. Provides an integrated management course emphasizing concepts and skills required by the successful manager and leader. Includes individual motivational and behavioral processes, leadership, communication, and group dynamics while providing foundation for the development of the junior officer's professional skills (officership). Emphasizes decision making and use of analytic aids in planning, organizing and controlling in a changing environment. Discusses organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics within the context of military organization. Uses actual Air Force case studies throughout the course to enhance the learning and communication process.

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ATLS-3010 (3) Digital Media 1

Introduces techniques, software, and related concepts of digital design and image making through individual and group projects. Emphasizes digital animation, digital audio, digital video and website design and development as a means to formal and expressive ends. Introduces students to critical readings and theories related to digital media practice. May be repeated up to 6 total credit hours. Prereq., ATLS 2000. Restricted to TAM students.

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AIRR-3020 (3) Air Force Leadership Studies II

Two 1 1/2-hour seminars and one 2-hour lab per week. Continuation of AIRR 3010. Emphasizes basic managerial processes while employing group discussions, case studies, and role playing as learning devices. Continues to emphasize the development of communicative skills.

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ATLS-3020 (3) Digital Media 2

A continuation of Digital Media 1 (ATLS 3010), this course introduces students to advanced digital media development including interactive programming, scripting, and database functionality. Emphasizes a historical and conceptual understanding of programming and computational theories. May be repeated for a total of 6 credit hours. Prereq., ATLS 2000 and ATLS 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

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NAVR-3020 (3) Naval Operations and Seamanship

Examines the Inland and International Rules of the Nautical Road, including court interpretations, principles of relative motion and vector analysis with the maneuvering board, ship handling procedures, weather, communications, tactical operations, and maritime law.

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Courses

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ATLS-3030 (3) Fundamentals of Digital Design

The fundamental goal of this course is to teach students how to use digital design tools effectively and compellingly. Through lectures, class discussions, projects and critiques, this course will cover the critical, theoretical, and technical skill sets necessary to become a more engaging, thoughtful, and articulate designer. Prereqs., ATLS 2000 and 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

NAVR-3030 (3) Naval Engineering Systems

Studies in detail ship propulsion and related auxiliary systems. Emphasizes fossil fuel and nuclear steam and gas turbine systems. Stresses design constraints imposed by unique marine environment.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Naval Science](#)

NAVR-3040 (3) Weapons and Systems Analysis

Introduces theoretical concepts upon which modern naval weapons systems are designed and constructed. Specific areas of study include physics of underwater sound propagation, pulse radar theory, automatic tracking principles, and fundamentals of missile guidance.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Naval Science](#)

MILR-3052 (3) Military Operations and Training 1

Further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. Involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Prereq., consent of the Professor of Military Science.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

MILR-3062 (3) Military Operations and Training 2

Studies theoretical and practical applications of small unit leadership principles. Focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. Exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Prereq., consent of the Professor of Military Science.

Cross College Programs | Reserve Office Training Corp | Military Science (U.S. Army)

NAVR-3101 (3) Evolution of Warfare

Traces the development of warfare, focusing on the impact of military theorists and technical developments. Assists students to acquire a sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedent on military actions.

Cross College Programs | Reserve Office Training Corp | Naval Science

ATLS-3110 (3) Motion Design

An animation-based projects course that advances student understanding of motion design in today's culture. Through active production and critical analysis, students will create new media projects and critically examine the history, social implications, and impacts of these forms of mass media. Prereq., ATLS 2000. Recommended prereq., ATLS 3010.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3112 (1-3) Digital and Social Systems Professional Development

Supports students in developing professional skills and practices in human computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as CSCI 3112.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3120 (3) Net Presence

An Internet-based projects course that advances student understanding of Internet culture. Through active production and critical analysis, students will explore their individual roles in the digital

landscape and critically examine the social implications and impacts of digital communities. Prereqs., ATLS 2000 and 3010. Recommended prereq., ATLS 3020.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3500 (1-3) Client Projects in Technology, Arts and Media

Allows undergraduate students to work on collaborative projects with faculty and with external organizations under faculty supervision. The course will focus on teamwork, conceptual planning, technical design and development, and working within real-world client environments. Critical skills include project research, planning, design, development, trouble-shooting, and presentation. Prereqs., ATLS 2000, 3010, or instructor consent. Recommended prereq., ATLS 3020. May be repeated up to 6 total credit hours.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3519 (1-3) Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 12 total credit hours for different topics. Prereq., ATLS 2000. Recommended prereq., ATLS 3010. Same as ATLS 3519, 5519 and 6519.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

PRLC-3810 (3) Global Issues in Leadership

Examines the challenges to leadership posed by major global issues. Problems in the areas of human rights, hunger, disease, large-scale collective violence, and environmental deterioration are explored with a special emphasis on the development of effective, long-term leadership strategies. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

Cross College Programs | Leadership Residential Academic Program

AIRR-4010 (3) National Security Affairs/Preparation for Active Duty

Two 1 1/2-hour seminars and one 2-hour lab per week. Studies U.S. national security policy which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. Also includes blocks of instruction on the military profession/officership, the military justice system, and communicative skills. Provides future Air Force officers with the background of U.S. national security policy so they can effectively function in today's Air Force.

Cross College Programs | Reserve Office Training Corp | Air Force Aerospace Studies

ATLS-4010 (3) Capstone Projects

The focus of this advanced practicum course is the development of an individual thesis project. Specific class sessions will feature a combination of lectures, demonstrations, guest speakers, lab sessions, and critiques. This course also entails group work, portfolio development, critical theoretical readings, and a significant written component. May be repeated up to 6 total credit hours. Prereqs., ATLS 2000, 3010, and 3020. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs Alliance for Technology, Learning, and Society (ATLAS)

NAVR-4010 (3) Leadership and Management 1

Comprehensively studies organizational leadership. Emphasizes motivation, communication, empowerment, and needs of subordinates. Studies the role of professional and personal ethics in organizational leadership.

Cross College Programs Reserve Office Training Corp Naval Science

PRLC-4010 (4) 21st Century Leadership

An advanced course that focuses on critical analysis of leadership principles and techniques. Designed to provide theoretical and hands-on experience for individuals who wish to function in leadership roles at high levels of competence in the workplace and in the civic arena.

Cross College Programs Leadership Residential Academic Program

AIRR-4020 (3) National Security Forces in Contemporary American Society 2

Two 1 1/2-hour seminars and one 2-hour lab per week. a continuation of AIRR 4010. Includes defense strategy conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communication skills.

Cross College Programs Reserve Office Training Corp Air Force Aerospace Studies

NAVR-4020 (3) Leadership and Ethics

Studies the ethics and laws of armed conflict, analyzing the leadership responsibilities of officers in conflict. Studies the military justice system and Naval legal administrative procedures, comparing military law with civilian criminal and civil law. Defines the responsibilities of junior officers within the military justice system.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4030 (3) Navigation

Offers theory and practical application in the art of navigation: charts, publications, piloting, dead reckoning, navigation aids and instruments, time, sextant use, electronic fixing, global positioning system, and voyage planning.

Cross College Programs Reserve Office Training Corp Naval Science

MILR-4072 (3) Officer Leadership and Development 1

Examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. Includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. Also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. Conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Prereq., consent of the Professor of Military Science.

Cross College Programs Reserve Office Training Corp Military Science (U.S. Army)

PRLC-4081 (3) Icons of the American Republic

Examines the founding period of the United States through the events, political concepts and individuals depicted in the art exhibited in the U.S. Capitol Building in Washington, D.C. The course includes a visit to the U.S. Capitol Building, the floor of the U.S. House of Representatives, the floor of the U.S. Senate, and an exploration of the legislative process. Prereq., PSCI 1101 or 2012 or 2223 or 2004. Restricted to students with a minimum 3.4 GPA and 60 credit hours completed. PSCI 4081 and PRLC 4081 are the same course.

Cross College Programs Leadership Residential Academic Program

MILR-4082 (3) Officer Leadership and Development 2

Continues Milr 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. Also examines varied topics such as theory and practice of the military justice system, law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Prereq., consent of the Professor of Military Science.

Cross College Programs Reserve Office Training Corp Military Science (U.S. Army)

NAVR-4101 (3) Amphibious Warfare

Surveys the development of amphibious doctrine. Emphasizes the evolution of amphibious warfare in the 20th century and beyond. Explores present-day potential and limitations on amphibious operations, including the rapid force deployment concept.

Cross College Programs Reserve Office Training Corp Naval Science

RSEI-4150 (3) Energy Policy Project

Provides students with an opportunity to apply their knowledge of energy technologies, systems, and policies to energy policy issues. Specific topical coverage varies by semester. Example topics include natural gas fracking, automotive fuel economy standards, and natural gas exports. Students work in teams to research, prepare, and present a detailed and specific energy project proposal. Prereq., ENVS 3621. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Cross College Programs Renewable and Sustainable Energy Institute

ATLS-4519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 9 total credit hours. Prereq., instructor consent. Recommended prereqs., ATLS 2000, ATLS 3010, and ATLS 3020. Same as ATLS 3519, 5519 and 6519.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

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ATLS-4809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-4900 (1-6) Undergraduate Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on research or a creative project guided by faculty. May be repeated up to 9 total credit hours. Prereqs., ATLS 3010, 3020, and consent of instructor.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

RSEI-5000 (3) Energy Science and Technology

Examines the basics of energy science and technology. Covers both conventional energy sources such as oil, natural gas, coal, nuclear and hydroelectric; and renewable/sustainable energy technologies including wind, solar, biomass, geothermal, and end-use efficiency. Investigates the technological promise and progress of each technology, as well as its limitations and challenges. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5001 (3) Renewable Energy Policy

Examines the technology, policy and politics of renewables. Technology includes the resource, science, and engineering aspects of renewables. Policy includes various policy levers used to influence renewables. Politics refers to political settings of renewables: how decision-makers perceive them, who supports/opposes policies, and how policies progress through the political process. Prereq., an introductory energy science and technology course. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

RSEI-5002 (3) The Business of Renewable Energy

Addresses the business of renewable energy, including opportunities and challenges with renewable electricity, renewable transportation fuels, and energy efficiency. Topics include energy markets, opportunity identification, life cycle analysis, economic analysis, policy impacts, and project financing of sustainable renewable energy business models. Prereqs., RSEI 5000 and 5001. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

RSEI-5100 (1) Renewable and Sustainable Energy Seminar

Examines a wide range of energy issues in seminar format. Students attend energy-related seminars and critique/evaluate the presented material. Open to graduate students from all disciplines. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

ATLS-5150 (1) Managing Effectively in a Changing Telecommunications Environment

Provides students with an opportunity to join international managers and policy makers from around the world in an intensive seminar focused on the challenges of managing in a telecommunications environment in an era of technological change. Guest lecturers provide an effective overview of the cutting-edge issues managers face in telecom and technology companies around the world. TLEN 5150 and ATLS 5150 are the same course.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

RSEI-5200 (3) Energy Topics Course

Covers timely topics related to renewable and sustainable energy. Specific offerings vary by semester. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

ATLS-5210 (3) Global Development I

Introduces students to the theories and policy of international development. The course will examine the role of multilateral agencies, foundations, aid organizations, corporate entities and academia in development as both an industry and a research field. The course will focus on development movements and their outcomes, the inter-related nature of development and its effect on policies and programs, and critiques. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5220 (3) Global Development II

Explores the impact of economic, geographical and social/cultural conditions on development outcomes through standalone course components taught by subject matter experts in region and in residency at ATLAS. Components may include, but are not limited to, development economics, environmental sustainability, public health, climate change, globalization and migration, religion, and gender as these broad themes relate to development. Prereq., ATLS 5210. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5230 (3) Case Studies in Information and Communication Technology for Development

Serves as foundation course for MS-ICTD program. Students will evaluate case studies across a range of technologies and applications. Students will learn how to match available technologies to human and environmental needs and resources, be introduced to the seminal work and leaders in the field, and discuss the future of ICTD as an emerging area of academic focus. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5240 (3) Information and Communication Technology for Development Laboratory

Prepares students for the semester-long practicum. Students work in teams to design ICTD interventions that address unique socio-economic and environmental development issues. Teams will design a variety of ICTD interventions, including telehealth and distance education programs, communication networks, and pro-development ICTD policies. Topics will be chosen by teams and guided by program faculty and external domain experts. Prereq., ATLS 5230. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5250 (3) Fieldwork Methods for ICTD Practitioners

Introduces methods and models that can be employed in ICTD program development and deployment. Examines the applications of participatory research, value-centric design, program scale, cross-disciplinary work, and appropriate monitoring and evaluation. The goal of this course is to build student confidence around existing evaluation toolkits and methods, while advancing multi-method approaches to designing and analyzing ICTD initiatives. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5610 (6) Startup Practicum

Presumes that entrepreneurship can be learned through the conception, build, and launch of an original product or service by student teams within a single semester. Immerses students in the daily leadership and innovation challenges of the startup environment and serves as a clinic in thinking, decision making and mental agility that will benefit any area of business--not just startups. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5620 (3) User Centered Design 1

Emphasizes that user-centered design is the first and primary consideration in the design process. UCD teaches how to design successful interactions from research into users' behaviors, attitudes and expectations via three key elements to designing successful user experiences: 1) Listen, Observe, and Research; 2) Concept and Design for Your Users; 3) Deliver/Launch. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5630 (3) Front-End Development

Covers the front end environment--HTML 5, CSS3, JS. Introduces students to HTML and emphasizes semantic use of elements and standards-based, valid code. CSS use focuses on separating content from presentation in order to decrease maintenance time, speed up development, improve download speed, and design capabilities. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5640 (4) Design Thinking

Explores design thinking and how it can be applied conceptually and practically to innovation in areas as diverse as business organization and product development to topics and areas including but not limited to, story, design, UX, interaction design, communication strategy and presentation. Fast-paced, project-based, and immersive, students will work in small teams to discover solutions to real-world problems. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5650 (3) Introduction to Programming

Provides a hands-on introduction to programming logic, environments, and execution using Ruby as the primary programming language. Covers basic programming principle, syntax, design patterns, and best industry practices while focusing on developing elegant, problem-solving skills through code. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5660 (3) Creative Code

Exposes students to front-end, web-based design and development processes and best practices. WordPress will be used as the back end CMS. Students will learn how to design and develop using WordPress as a framework. At the end of the semester, students will present a final project to illustrate what they have learned and the logic of their build. Recommended prereqs., exposure to HTML, CSS, JavaScript, PHP and MySQL, and previous experience with WordPress for blogging and/or content publication. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5670 (3) Content Strategies

Experiments with different frameworks on how to combine messaging with creative to communicate complex ideas, brand story, product, and finally measure success. Gain experience and

expertise with the various content types and channels, with an understanding of how to apply them and the capabilities to do so in solving creative and business problems. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5900 (1-6) Masters Level Independent Study

Provides opportunities for independent study and research at the Masters level. Students work on research project guided by faculty. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS graduate students in good academic standing. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-6519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-6910 (6) Information and Communication Technology for Development Practicum

This practicum allows MS-ICTD students to synthesize what they have learned and test their readiness for a career in ICTD. Practicum assignments are arranged under the supervision of the MS-ICTD Program Director and involve work with a non-governmental organization, development agency or technology/policy entity. Successful completion is required for graduation from the MS-ICTD Program. Prereqs., ATLS 5210, 5220, 5230, 5240 and 5250.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

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ATLS-7000 (1) ATLAS Seminar

This student/faculty seminar critically examines issues in technology, media and society from the multiple interdisciplinary perspective of the gathered participants. Topics may include: IT and business, security, ethics, globalization, digital divide, IT and education, human computer interaction and others. May be repeated up to 8 total credit hours. Instructor permission required.

Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-7800 (2) Online Course Design for the Foreign Languages

Learn about the challenges and affordances of designing online foreign languages courses. Read research articles and book chapters pertaining to instructional design issues and online teaching strategies. Experiment with the latest forms of educational technologies. Students enrolled in the course will design and teach a two-week online language course. Prereq., two years of language teaching experience at the college level.

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ATLS-7900 (1-6) Doctoral Level Independent Study

Provides opportunities for independent study and research at the Doctoral level. Students perform independent research under faculty supervision. May be repeated up to 6 total credit hours.

Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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ATLS-8990 (1-10) Doctoral Dissertation

Approved research conducted under the supervision of members of the graduate faculty. Investigates some specialized topic or field in the area of interdisciplinary information and communication technology. All doctoral students must register for at least 30 hours of dissertation credit as part of the requirement for the ATLAS doctoral degree. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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JOUR-1001 (3) Contemporary Media Analysis

An introduction to the role of media in contemporary society, focusing on the cultural, political, economic, and historical context within which print and media technologies developed and how audiences interact with and influence the use of media. Restricted to Journalism & Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only.

[Journalism & Mass Communication Program](#)
[Journalism](#)
[Core Curr. & General Electives](#)

JOUR-1871 (1-3) Special Topics for First-Year Students

Special studies in media that are specific for first-year students. May be repeated for a maximum of three credit hours.

[Journalism & Mass Communication Program](#)
[Journalism](#)
[Core Curr. & General Electives](#)

JOUR-2011 (3) Media and Public Culture

Introduces the rise and development of mediated communication and its impact on and role within the formation of modern culture and public life. Restricted to JOUR majors.

[Journalism & Mass Communication Program](#)
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JOUR-2403 (3) Principles of Advertising and Consumer Culture

Explores creative and strategic thinking plus the nature and functions of promotions, event-marketing, public relations, and advertising and their growing interdependence in a changing media landscape. Considers technology's impact and the effect of commercial culture on an increasingly diverse society. Restricted to School of Journalism and Mass Communication (JOUR) or

Marketing (MKTG) majors only. Prerequisites: Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-2601 (3) Principles of Journalism and Networked Communication

Surveys the history, practices and responsibilities of journalism in a democracy. Examines ethics, best practices in institutional and network settings, reporting and writing, international news systems, personal branding, and strategies for creating and distributing content across media platforms. Promotes the highest professional values and encourages students to be leaders who recognize the possibilities of journalism in a democratic society. Restricted to Journalism and Mass Communication (JOUR) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-3001 (3) Public Affairs Reporting

Grounds students in the basic newsgathering skills needed to work for news enterprises. Students learn techniques central to researching, reporting and writing stories for various media formats, including print, online, and broadcast journalism. Prereq., JOUR 2601 or 1002. Prerequisites: Requires prerequisite course of JOUR 2601 or 1002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3002 (3) Multimedia Reporting and Production

Equips students with the tools and techniques needed to produce multimedia content. Classroom instruction offers students historical, social and cultural contexts for the emergence of new media forms. Skills and practices covered include website design and construction, nonlinear video editing, digital graphics design, interactive information presentation, and multimedia reporting. Restricted to juniors/seniors. May be limited to JOUR majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3102 (3) Photojournalism I

Introduces the basic elements of visual communication. Covers the use of camera systems, digital imaging techniques and other aspects of photojournalism including law, ethics, history and critical decision-making. Prereq., JOUR 2601. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3403 (3) Branding and Positioning

Examines the theory and practice of branding, target segmentation and how the digital space and the rapid rise of consumer generated content have impacted brand management. Students analyze audience research, and the competitive set to develop brand positions and benefits. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3453 (3) Introduction to Creative Concepts

Provides an opportunity to explore approaches to creative problem solving and visual thinking. Students draw on this theoretical foundation to develop advertising ideas in a variety of media for both commercial clients and non-profit organizations. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3463 (3) Advertising Media

Studies media, markets, and audiences, and their relationships to advertising messages. Prereqs., JOUR 3403 and 3453. Prerequisites: Requires pre-requisite courses of JOUR 3403 and 3453. Restricted to students with 57-180 credits (Junior or Senior) Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3473 (3) Advertising Research

Introduces students to applied research methods and provides practice in using research in marketing and advertising decision making. Prereqs., JOUR 3403 and 3453. Restricted to junior/senior JOUR, MKTG and ADVT majors.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3503 (3) Intermediate Creative Concepts

Explores both strategic and creative thinking and examines approaches to narrative storytelling as a tool for telling overarching brand stories. Students use the foundation to develop creative briefs and advertising campaigns. Prereqs., JOUR 3403, 3453 and instructor consent. Coreq., JOUR 4513. Prerequisites: Prereq., JOUR 3453 and instructor consent. Coreq., JOUR 4513.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-3552 (3) Editing and Presentation

Explores copy editing, graphic principles and processes, new media technology. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3604 (3) Radio and Television News

Covers principles and techniques involved in the preparation of news for broadcasting. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3614 (3) Principles of Audio Production

Introduces audio production techniques using digital technologies. Students learn to apply fundamental principles to create professional radio and online programs including podcasting. Restricted to Journalism majors with a minimum of 45 hours taken. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 45 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3644 (3) Principles of Television Production

Emphasizes the use of video technologies in both field and studio production, camera and editing work, producing and directing for professional program production. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3674 (3) Television Production 2

Covers studio productions for "Newsteam Boulder." Students also do field projects to sharpen their writing, video production, and editing skills. Prereq., JOUR 3644. Prerequisites: Requires pre-requisite course of JOUR 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3771 (3) Media and Communication History

Examines the historical development of various communication technologies (printing press, photography, film, radio, television, computers, Internet); their impact on culture (forms of expression and social relationships); and their relation to various conceptions of the public (citizens, audiences, consumers, markets). Draws on history to explore current issues in media, popular culture and their relation to public life. Prereq., junior or senior standing. May be limited to majors.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-3902 (1-3) Newspaper Practicum

Gives students the opportunity to participate in newswork on Campus Press. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3913 (1-3) Advertising Practicum

Provides the opportunity to do advertising work outside existing classes. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4002 (3) Reporting 2

Assumes mastery of basic reporting and writing skills. Students produce more sophisticated stories on a variety of topics. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) or Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4102 (3) Photojournalism Portfolio

Advanced course intended to give students a forum in which technical skills will be brought to professional standards. Build a polished portfolio of work to present to editors and buyers. Prereq., JOUR 3102. Prerequisites: Requires a prerequisite course of JOUR 3102.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4201 (3) Media, Culture and Globalization

Surveys the political and economic structures of media system in developed and developing countries and discusses the impact of privatization, ownership consolidation, and globalization on the flow of information across national borders. Also looks at how global media flows and counter-flows affect conceptions of nationhood and cultural identity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-4211 (3) East Asian Media and Culture

Offers an understanding of the various people, cultures and nations of East Asia through their media systems. Provides a critical overview of the historical, cultural, social, political and economic dimensions of East Asian communication systems in today's digitally connected/disconnected world. Restricted to junior/senior SJMC majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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JOUR-1001 (3) Contemporary Media Analysis

An introduction to the role of media in contemporary society, focusing on the cultural, political, economic, and historical context within which print and media technologies developed and how audiences interact with and influence the use of media. Restricted to Journalism & Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-1871 (1-3) Special Topics for First-Year Students

Special studies in media that are specific for first-year students. May be repeated for a maximum of three credit hours.

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JOUR-2011 (3) Media and Public Culture

Introduces the rise and development of mediated communication and its impact on and role within the formation of modern culture and public life. Restricted to JOUR majors.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-2403 (3) Principles of Advertising and Consumer Culture

Explores creative and strategic thinking plus the nature and functions of promotions, event-marketing, public relations, and advertising and their growing interdependence in a changing media landscape. Considers technology's impact and the effect of commercial culture on an increasingly diverse society. Restricted to School of Journalism and Mass Communication (JOUR) or

Marketing (MKTG) majors only. Prerequisites: Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only.

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JOUR-2601 (3) Principles of Journalism and Networked Communication

Surveys the history, practices and responsibilities of journalism in a democracy. Examines ethics, best practices in institutional and network settings, reporting and writing, international news systems, personal branding, and strategies for creating and distributing content across media platforms. Promotes the highest professional values and encourages students to be leaders who recognize the possibilities of journalism in a democratic society. Restricted to Journalism and Mass Communication (JOUR) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

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JOUR-3771 (3) Media and Communication History

Examines the historical development of various communication technologies (printing press, photography, film, radio, television, computers, Internet); their impact on culture (forms of expression and social relationships); and their relation to various conceptions of the public (citizens, audiences, consumers, markets). Draws on history to explore current issues in media, popular culture and their relation to public life. Prereq., junior or senior standing. May be limited to majors.

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JOUR-4201 (3) Media, Culture and Globalization

Surveys the political and economic structures of media system in developed and developing countries and discusses the impact of privatization, ownership consolidation, and globalization on the flow of information across national borders. Also looks at how global media flows and counter-flows affect conceptions of nationhood and cultural identity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

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JOUR-4211 (3) East Asian Media and Culture

Offers an understanding of the various people, cultures and nations of East Asia through their media systems. Provides a critical overview of the historical, cultural, social, political and economic dimensions of East Asian communication systems in today's digitally connected/disconnected world. Restricted to junior/senior SJMC majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4301 (3) Media Ethics

Provides students with an overview of the theories, ethics codes, and analytical models that are used in journalism, public relations, and advertising. Introduces students to a variety of ethical issues that can arise across media professions, as well as the industry practices that can lead to ethical lapses, and teaches students how to challenge those practices. Same as JOUR 5301.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4321 (3) Media Institutions and Economics

Focuses on the institutions and practices of the media industries. Surveys the histories, structures, and activities of these organizations and the contemporary issues surrounding them. Same as JOUR 5321. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Studies the construction, interconnections, and replications of gender, race, class, and sexuality in popular culture and how these constructs become cultural norms and mores. Uses critical methods with a focus on producing responsible viewers and readers. Same as JOUR 5331, WMST 4331. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4341 (3) International Media and Global Crises

Examines strengths and limits on medias role in globalized crises (e.g. financial, climate change, health) in light of changing distribution of global power. Introduction to current crises; context-analytical approach to media technologies, financing and uses; application to national cases. Restricted to JOUR and IAFS juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4351 (3) Reporting Wars, Disasters, and Peace

Explores how journalists report international breaking news with a focus on war, disaster and peace and how these news events affect peoples' lives, governmental decisions and news media operations. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4361 (3) TV and the Family in American Culture and Society

Examines the history and character of two central institutions in American society--the family and television--to gain deeper understanding of their formative and enduring roles. Topics include: intersecting histories of the family and television; economic logic of the TV industry and programming; representations of the family in television programming; how families use and interact with television. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4651 (3) Media Law

Studies state and federal laws and court decisions that affect the media in order to develop knowledge of media rights and responsibilities and an understanding of the legal system. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4711 (3) Media and Culture

Examines culture in the form of discourse, symbols, and texts transmitted through the media. Explores the relationship between such mediated culture and social myth and ideology. Same as JOUR 5711.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4791 (3) Media and the Public

Provides an overview of how publishing in print and electronic forms has been tied closely to democratic ideals for centuries. Explores how the idea of the public is central to the theory and practice of media politics, and how the contested concepts of "the public sphere" and "public opinion" have long been linked to debates about the proper relationship between media and democratic citizenship. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5791. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4841 (1-4) Undergraduate Independent Study

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4871 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4931 (1-6) Internship

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-5001 (1-4) Research in Journalism

Offers students the opportunity to participate in research projects with faculty members or pursue their own primary research interests.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5201 (3) Media, Culture and Globalization

Same as JOUR 4201.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5301 (3) Media Ethics

Same as JOUR 4301.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

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JOUR-1001 (3) Contemporary Media Analysis

An introduction to the role of media in contemporary society, focusing on the cultural, political, economic, and historical context within which print and media technologies developed and how audiences interact with and influence the use of media. Restricted to Journalism & Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only.

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JOUR-1871 (1-3) Special Topics for First-Year Students

Special studies in media that are specific for first-year students. May be repeated for a maximum of three credit hours.

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JOUR-2011 (3) Media and Public Culture

Introduces the rise and development of mediated communication and its impact on and role within the formation of modern culture and public life. Restricted to JOUR majors.

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JOUR-2403 (3) Principles of Advertising and Consumer Culture

Explores creative and strategic thinking plus the nature and functions of promotions, event-marketing, public relations, and advertising and their growing interdependence in a changing media landscape. Considers technology's impact and the effect of commercial culture on an increasingly diverse society. Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only. Prerequisites: Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only.

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JOUR-3001 (3) Public Affairs Reporting

Grounds students in the basic newsgathering skills needed to work for news enterprises. Students learn techniques central to researching, reporting and writing stories for various media formats, including print, online, and broadcast journalism. Prereq., JOUR 2601 or 1002. Prerequisites: Requires prerequisite course of JOUR 2601 or 1002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Print & Online Journalism](#)

JOUR-3002 (3) Multimedia Reporting and Production

Equips students with the tools and techniques needed to produce multimedia content. Classroom instruction offers students historical, social and cultural contexts for the emergence of new media forms. Skills and practices covered include website design and construction, nonlinear video editing, digital graphics design, interactive information presentation, and multimedia reporting. Restricted to juniors/seniors. May be limited to JOUR majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Journalism & Mass Communication Program](#) [Journalism](#) [Print & Online Journalism](#)

JOUR-3102 (3) Photojournalism I

Introduces the basic elements of visual communication. Covers the use of camera systems, digital imaging techniques and other aspects of photojournalism including law, ethics, history and critical decision-making. Prereq., JOUR 2601. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Print & Online Journalism](#)

JOUR-3552 (3) Editing and Presentation

Explores copy editing, graphic principles and processes, new media technology. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with

57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) majors only.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-3902 (1-3) Newspaper Practicum

Gives students the opportunity to participate in newswork on Campus Press. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4002 (3) Reporting 2

Assumes mastery of basic reporting and writing skills. Students produce more sophisticated stories on a variety of topics. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) or Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4102 (3) Photojournalism Portfolio

Advanced course intended to give students a forum in which technical skills will be brought to professional standards. Build a polished portfolio of work to present to editors and buyers. Prereq., JOUR 3102. Prerequisites: Requires a prerequisite course of JOUR 3102.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4272 (3) Principles of Public Relations

Introduces the economics, ethics, history, impact, practice, and social context of the public relations industry in America. Includes an analysis of public relations in agencies, corporations, political campaigns, social service organizations, universities, and other venues. Emphasizes writing for public relations, including fact sheets, press releases, reports, and speeches. Same as JOUR 5272. Restricted to Journalism majors with a minimum of 57 hours taken. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4282 (3) Public Relations Strategy and Campaigns

Develops and applies public relations programs, from identification of the problem through execution of public relations techniques. Prereq., JOUR 4272. Same as JOUR 5282. Prerequisites: Requires a prerequisite course of JOUR 4272.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4502 (3) Reporting 3

Involves writing news and features about actual events for publication under deadline pressure. Lab to be arranged. Prereqs., JOUR 3552 and 4002. Restricted to News Editorial majors and with a minimum of 85 hours taken. Same as JOUR 5502. Prerequisites: Requires pre-requisite courses of JOUR 3552 and 4002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 85 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4562 (3) Digital Journalism

Builds upon digital production skills through the creation of multimedia project. Applies media theory to evaluate digital media content and explore how digital forms influence the news industry, politics, culture, and society. Prereq., JOUR 3002. Same as JOUR 5562. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4602 (3) Editorial, Commentary and Opinion Writing

Concentrates on several of the subjective areas of journalism. Emphasizes editorial and column writing, editorial pages and blogging. Prereq., JOUR 3001. Same as JOUR 5602. Prerequisites: Requires a prerequisite course of JOUR 3001.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4702 (3) Arts/Cultural Reporting and Criticism

Emphasizes composition of criticism for the performing arts and other areas of entertainment. Prereq., JOUR 3001. Same as JOUR 5702.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4802 (3) Magazine and Feature Writing

Provides practice in writing freelance articles. Considers types, sources, methods, titles, illustrations, and freelance markets. Students submit work for publication. Prereq., JOUR 3001. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5802. Prerequisites: Requires prerequisite course of JOUR 3001. Restricted to Journalism and Mass Communication (JOUR) majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4822 (3) Reporting on the Environment

Involves reporting and writing about the environment by taking into account the scientific, technological, political, economic, and cultural dimensions of environmental subjects. Same as JOUR 5822.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4872 (1-3) Special Topics: Print

Same as JOUR 5872. Prerequisites: Restricted to News-Editorial (NSED-BSJR or JNED-BSJR) students with 87-180 credits (Senior, Fifth Year Senior).

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5102 (3) Photojournalism Portfolio

Same as JOUR 4102.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5272 (3) Principles of Public Relations

Same as JOUR 4272.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5282 (3) Public Relations Strategy and Campaigns

Prereq., JOUR 5272 or instructor consent. Same as JOUR 4282. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5502 (3) Newsgathering 2

Prereqs., JOUR 5511 and 5552. Restricted to majors. Same as JOUR 4502. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5552 and is restricted to JOUR graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5512 (3) In-Depth Reporting

Shows how to dig beneath the surface of issues and events. Focuses on research, interviewing, and writing. Prereq., JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5552 (3) News Editing

Discusses principles and practice in copy editing and writing headlines for local and wire stories. Practice in page makeup, picture editing, and electronic editing. Prereq., JOUR 3001. Restricted to majors.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5562 (3) Digital Journalism

Same as JOUR 4562. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5602 (3) Editorial, Commentary and Opinion Writing

Prereq., JOUR 5511. Same as JOUR 4602. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5702 (3) Arts/Cultural Reporting and Criticism

Prereq., JOUR 5511. Same as JOUR 4702. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism



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JOUR-3403 (3) Branding and Positioning

Examines the theory and practice of branding, target segmentation and how the digital space and the rapid rise of consumer generated content have impacted brand management. Students analyze audience research, and the competitive set to develop brand positions and benefits. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3453 (3) Introduction to Creative Concepts

Provides an opportunity to explore approaches to creative problem solving and visual thinking. Students draw on this theoretical foundation to develop advertising ideas in a variety of media for both commercial clients and non-profit organizations. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3463 (3) Advertising Media

Studies media, markets, and audiences, and their relationships to advertising messages. Prereqs., JOUR 3403 and 3453. Prerequisites: Requires pre-requisite courses of JOUR 3403 and 3453. Restricted to students with 57-180 credits (Junior or Senior) Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3473 (3) Advertising Research

Introduces students to applied research methods and provides practice in using research in marketing and advertising decision making. Prereqs., JOUR 3403 and 3453. Restricted to

junior/senior JOUR, MKTG and ADVT majors.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-3503 (3) Intermediate Creative Concepts

Explores both strategic and creative thinking and examines approaches to narrative storytelling as a tool for telling overarching brand stories. Students use the foundation to develop creative briefs and advertising campaigns. Prereqs., JOUR 3403, 3453 and instructor consent. Coreq., JOUR 4513. Prerequisites: Prereq., JOUR 3453 and instructor consent. Coreq., JOUR 4513.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-3913 (1-3) Advertising Practicum

Provides the opportunity to do advertising work outside existing classes. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4403 (4) Advertising Campaigns

Gives students the opportunity to work in small groups to develop material for an actual client. Students examine basic principles of group dynamics and effective teamwork while conducting research, developing strategies and creating a multimedia campaign. All work is presented to the client. Prereq., JOUR 3463 or 3503. Prerequisites: Requires pre-requisite course of JOUR 3463 or 3503. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors with a minimum of 85 hours.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4453 (3) Advertising and Society

Examines criticisms and contributions of advertising in society and the economy. Same as JOUR 5453.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4503 (3) Advanced Creative Concepts

Builds on skills acquired in JOUR 3503 and 4513 to help students enhance their conceptual abilities and generate both print and integrated multimedia campaigns. Students work in teams to develop an extensive body of work that's exhibited in an awards show judged by advertising professionals. Prereqs., JOUR 3503 and 4513 and instructor consent.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4513 (3) Art Direction

Explores theories of visual communication, the visual imagination, and key principles of design. Develops students ability to express ideas through images and to create both effective visual concepts and layouts for a variety of media. Prereq., JOUR 3453 and instructor consent. Coreq. JOUR 3503.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4523 (3) Portfolio

Gives students an opportunity to develop an extensive body of work. Students create integrated campaigns, which include print, digital and guerilla ideas. Final portfolios are critiqued by both faculty and outside reviewers. JOUR 4503 and instructor consent.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4533 (3) Applied Consumer Insights

Provides an opportunity to use and master quantitative and qualitative research methods. Students conduct research and analyze data to determine the targets relationship with specific product categories and identify the emotional and practical needs that motivate purchase. Prereqs., JOUR 3403, 3453. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4543 (3) Strategic Brand Management

Examines the theory of branding: what brands are, how brands are created and measured, as well as strategies for managing brands and brand communication. Prereq., JOUR 3463. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4873 (1-3) Special Topics

Restricted to Journalism majors with a minimum of 75 hours taken. Prereqs., JOUR 3453, 3463, and 3473. Prerequisites: Restricted to Advertising (ADVT) majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-5453 (3) Advertising and Society

Same as JOUR 4453.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-5873 (1-3) Special Topics: Advertising

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JOUR-2601 (3) Principles of Journalism and Networked Communication

Surveys the history, practices and responsibilities of journalism in a democracy. Examines ethics, best practices in institutional and network settings, reporting and writing, international news systems, personal branding, and strategies for creating and distributing content across media platforms. Promotes the highest professional values and encourages students to be leaders who recognize the possibilities of journalism in a democratic society. Restricted to Journalism and Mass Communication (JOUR) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

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JOUR-3001 (3) Public Affairs Reporting

Grounds students in the basic newsgathering skills needed to work for news enterprises. Students learn techniques central to researching, reporting and writing stories for various media formats, including print, online, and broadcast journalism. Prereq., JOUR 2601 or 1002. Prerequisites: Requires prerequisite course of JOUR 2601 or 1002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 57 hours taken.

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JOUR-3002 (3) Multimedia Reporting and Production

Equips students with the tools and techniques needed to produce multimedia content. Classroom instruction offers students historical, social and cultural contexts for the emergence of new media forms. Skills and practices covered include website design and construction, nonlinear video editing, digital graphics design, interactive information presentation, and multimedia reporting. Restricted to juniors/seniors. May be limited to JOUR majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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JOUR-3102 (3) Photojournalism I

Introduces the basic elements of visual communication. Covers the use of camera systems, digital imaging techniques and other aspects of photojournalism including law, ethics, history and critical decision-making. Prereq., JOUR 2601. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

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JOUR-3403 (3) Branding and Positioning

Examines the theory and practice of branding, target segmentation and how the digital space and the rapid rise of consumer generated content have impacted brand management. Students analyze audience research, and the competitive set to develop brand positions and benefits. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

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JOUR-3604 (3) Radio and Television News

Covers principles and techniques involved in the preparation of news for broadcasting. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Broadcast Journalism](#)

JOUR-3614 (3) Principles of Audio Production

Introduces audio production techniques using digital technologies. Students learn to apply fundamental principles to create professional radio and online programs including podcasting. Restricted to Journalism majors with a minimum of 45 hours taken. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 45 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Broadcast Journalism](#)

JOUR-3644 (3) Principles of Television Production

Emphasizes the use of video technologies in both field and studio production, camera and editing work, producing and directing for professional program production. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Broadcast Journalism](#)

JOUR-3674 (3) Television Production 2

Covers studio productions for "Newsteam Boulder." Students also do field projects to sharpen their writing, video production, and editing skills. Prereq., JOUR 3644. Prerequisites: Requires pre-

requisite course of JOUR 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4344 (3) Video Documentary Production

Designed to give students the experience of researching, writing, shooting and editing their own documentaries. Prereq., JOUR 3644. Same as JOUR 5344. Prerequisites: Requires a prerequisite course of JOUR 3644.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4354 (3) TV Reporting

Students learn basic broadcast reporting skills---where to find news and how to cover it, how to analyze and organize news stories. Skills are linked with advanced concepts of shooting and editing videotape in order to produce news stories on deadline. Prereqs., JOUR 3604 and 3644. Prerequisites: Requires pre-requisite courses of JOUR 3604 and 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) majors only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4614 (1-3) Advanced Audio Practices

Applies advanced skills in producing in-depth audio programming for radio stations in Colorado and for weekly discussion-critique sessions. Prereq., JOUR 3614.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4624 (4) News Team

Students participate in Newsteam Boulder a program broadcast live over the Boulder cable television system. Prereq., JOUR 4354. Same as JOUR 5624. Prerequisites: Requires pre-requisite course of JOUR 4354. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Broadcast News (BCNS) majors only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4634 (1-3) Broadcast Projects

Covers interpretation, preparation, and/or reporting in programs for broadcast media. Prepares radio or television documentaries and informational/entertainment programs. Prereqs., JOUR 3604 and 3644, or instructor consent.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4674 (1-3) Television Production 3

Provides in-depth experience in directing and producing television programs. Prereq., JOUR 3674. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 85 hours taken. Prerequisites: Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 85 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Requires a prerequisite course of JOUR 3644. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4874 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4875 (6) Special Topics: Boulder Digital Works

May be repeated up to 24 credit hours. Pass/fail only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5344 (3) Video Documentary Production

Same as JOUR 4344.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5514 (3) Newsgathering for Television

Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5524 (3) Television Investigative Reporting

Covers how to produce quality, substantive, in-depth stories for television. Covers the basics of investigative reporting, research, and working with sources.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5624 (4) News Team

Prereqs., JOUR 5511 and 5514. Same as JOUR 4624. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5514.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5634 (1-3) Broadcast Projects

Prereq., instructor consent. Same as JOUR 4634. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5874 (1-3) Special Topics: Electronic Media

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-6940 (1) Master's Degree Candidate

Journalism & Mass Communication Program | Journalism | Broadcast Journalism



JOUR-3453 (3) Introduction to Creative Concepts

Provides an opportunity to explore approaches to creative problem solving and visual thinking. Students draw on this theoretical foundation to develop advertising ideas in a variety of media for both commercial clients and non-profit organizations. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

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JOUR-3463 (3) Advertising Media

Studies media, markets, and audiences, and their relationships to advertising messages. Prereqs., JOUR 3403 and 3453. Prerequisites: Requires pre-requisite courses of JOUR 3403 and 3453. Restricted to students with 57-180 credits (Junior or Senior) Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only.

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JOUR-3473 (3) Advertising Research

Introduces students to applied research methods and provides practice in using research in marketing and advertising decision making. Prereqs., JOUR 3403 and 3453. Restricted to junior/senior JOUR, MKTG and ADVT majors.

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JOUR-3503 (3) Intermediate Creative Concepts

Explores both strategic and creative thinking and examines approaches to narrative storytelling as a tool for telling overarching brand stories. Students use the foundation to develop creative briefs and advertising campaigns. Prereqs., JOUR 3403, 3453 and instructor consent. Coreq., JOUR 4513. Prerequisites: Prereq., JOUR 3453 and instructor consent. Coreq., JOUR 4513.

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JOUR-3552 (3) Editing and Presentation

Explores copy editing, graphic principles and processes, new media technology. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) majors only.

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JOUR-3604 (3) Radio and Television News

Covers principles and techniques involved in the preparation of news for broadcasting. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

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JOUR-3614 (3) Principles of Audio Production

Introduces audio production techniques using digital technologies. Students learn to apply fundamental principles to create professional radio and online programs including podcasting. Restricted to Journalism majors with a minimum of 45 hours taken. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 45 hours taken.

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JOUR-3644 (3) Principles of Television Production

Emphasizes the use of video technologies in both field and studio production, camera and editing work, producing and directing for professional program production. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

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JOUR-3674 (3) Television Production 2

Covers studio productions for "Newsteam Boulder." Students also do field projects to sharpen their writing, video production, and editing skills. Prereq., JOUR 3644. Prerequisites: Requires pre-requisite course of JOUR 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only.

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JOUR-3771 (3) Media and Communication History

Examines the historical development of various communication technologies (printing press, photography, film, radio, television, computers, Internet); their impact on culture (forms of expression and social relationships); and their relation to various conceptions of the public (citizens, audiences, consumers, markets). Draws on history to explore current issues in media, popular culture and their relation to public life. Prereq., junior or senior standing. May be limited to majors.

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JOUR-3902 (1-3) Newspaper Practicum

Gives students the opportunity to participate in newswork on Campus Press. May be repeated up to 6 total credit hours. Instructor consent required.

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JOUR-3913 (1-3) Advertising Practicum

Provides the opportunity to do advertising work outside existing classes. May be repeated up to 6 total credit hours. Instructor consent required.

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JOUR-4002 (3) Reporting 2

Assumes mastery of basic reporting and writing skills. Students produce more sophisticated stories on a variety of topics. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) or Journalism and Mass Communication (JOUR) majors only.

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JOUR-4102 (3) Photojournalism Portfolio

Advanced course intended to give students a forum in which technical skills will be brought to professional standards. Build a polished portfolio of work to present to editors and buyers. Prereq., JOUR 3102. Prerequisites: Requires a prerequisite course of JOUR 3102.

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JOUR-4201 (3) Media, Culture and Globalization

Surveys the political and economic structures of media system in developed and developing countries and discusses the impact of privatization, ownership consolidation, and globalization on the flow of information across national borders. Also looks at how global media flows and counter-flows affect conceptions of nationhood and cultural identity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

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JOUR-4211 (3) East Asian Media and Culture

Offers an understanding of the various people, cultures and nations of East Asia through their media systems. Provides a critical overview of the historical, cultural, social, political and economic dimensions of East Asian communication systems in today's digitally connected/disconnected world. Restricted to junior/senior SJMC majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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JOUR-4272 (3) Principles of Public Relations

Introduces the economics, ethics, history, impact, practice, and social context of the public relations industry in America. Includes an analysis of public relations in agencies, corporations, political campaigns, social service organizations, universities, and other venues. Emphasizes writing for public relations, including fact sheets, press releases, reports, and speeches. Same as JOUR 5272. Restricted to Journalism majors with a minimum of 57 hours taken. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

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JOUR-4282 (3) Public Relations Strategy and Campaigns

Develops and applies public relations programs, from identification of the problem through execution of public relations techniques. Prereq., JOUR 4272. Same as JOUR 5282. Prerequisites: Requires a prerequisite course of JOUR 4272.

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JOUR-4301 (3) Media Ethics

Provides students with an overview of the theories, ethics codes, and analytical models that are used in journalism, public relations, and advertising. Introduces students to a variety of ethical issues that can arise across media professions, as well as the industry practices that can lead to ethical lapses, and teaches students how to challenge those practices. Same as JOUR 5301. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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JOUR-4311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4321 (3) Media Institutions and Economics

Focuses on the institutions and practices of the media industries. Surveys the histories, structures, and activities of these organizations and the contemporary issues surrounding them. Same as JOUR 5321. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Studies the construction, interconnections, and replications of gender, race, class, and sexuality in popular culture and how these constructs become cultural norms and mores. Uses critical methods with a focus on producing responsible viewers and readers. Same as JOUR 5331, WMST 4331. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4341 (3) International Media and Global Crises

Examines strengths and limits on media's role in globalized crises (e.g. financial, climate change, health) in light of changing distribution of global power. Introduction to current crises; context-analytical approach to media technologies, financing and uses; application to national cases. Restricted to JOUR and IAFS juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4344 (3) Video Documentary Production

Designed to give students the experience of researching, writing, shooting and editing their own documentaries. Prereq., JOUR 3644. Same as JOUR 5344. Prerequisites: Requires a prerequisite course of JOUR 3644.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4351 (3) Reporting Wars, Disasters, and Peace

Explores how journalists report international breaking news with a focus on war, disaster and peace and how these news events affect peoples' lives, governmental decisions and news media operations. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4354 (3) TV Reporting

Students learn basic broadcast reporting skills---where to find news and how to cover it, how to analyze and organize news stories. Skills are linked with advanced concepts of shooting and editing videotape in order to produce news stories on deadline. Prereqs., JOUR 3604 and 3644. Prerequisites: Requires pre-requisite courses of JOUR 3604 and 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4361 (3) TV and the Family in American Culture and Society

Examines the history and character of two central institutions in American society--the family and television--to gain deeper understanding of their formative and enduring roles. Topics include: intersecting histories of the family and television; economic logic of the TV industry and programming; representations of the family in television programming; how families use and interact with television. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr. & General Electives

JOUR-4403 (4) Advertising Campaigns

Gives students the opportunity to work in small groups to develop material for an actual client. Students examine basic principles of group dynamics and effective teamwork while conducting research, developing strategies and creating a multimedia campaign. All work is presented to the client. Prereq., JOUR 3463 or 3503. Prerequisites: Requires pre-requisite course of JOUR 3463 or 3503. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors with a minimum of 85 hours.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4453 (3) Advertising and Society

Examines criticisms and contributions of advertising in society and the economy. Same as JOUR 5453.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4502 (3) Reporting 3

Involves writing news and features about actual events for publication under deadline pressure. Lab to be arranged. Prereqs., JOUR 3552 and 4002. Restricted to News Editorial majors and with a minimum of 85 hours taken. Same as JOUR 5502. Prerequisites: Requires pre-requisite courses of JOUR 3552 and 4002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 85 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4503 (3) Advanced Creative Concepts

Builds on skills acquired in JOUR 3503 and 4513 to help students enhance their conceptual abilities and generate both print and integrated multimedia campaigns. Students work in teams to develop an extensive body of work that's exhibited in an awards show judged by advertising professionals. Prereqs., JOUR 3503 and 4513 and instructor consent.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4513 (3) Art Direction

Explores theories of visual communication, the visual imagination, and key principles of design. Develops students ability to express ideas through images and to create both effective visual concepts and layouts for a variety of media. Prereq., JOUR 3453 and instructor consent. Coreq. JOUR 3503.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4523 (3) Portfolio

Gives students an opportunity to develop an extensive body of work. Students create integrated campaigns, which include print, digital and guerilla ideas. Final portfolios are critiqued by both faculty and outside reviewers. JOUR 4503 and instructor consent.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4533 (3) Applied Consumer Insights

Provides an opportunity to use and master quantitative and qualitative research methods. Students conduct research and analyze data to determine the targets relationship with specific product categories and identify the emotional and practical needs that motivate purchase. Prereqs., JOUR 3403, 3453. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4543 (3) Strategic Brand Management

Examines the theory of branding: what brands are, how brands are created and measured, as well as strategies for managing brands and brand communication. Prereq., JOUR 3463. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4562 (3) Digital Journalism

Builds upon digital production skills through the creation of multimedia project. Applies media theory to evaluate digital media content and explore how digital forms influence the news industry, politics, culture, and society. Prereq., JOUR 3002. Same as JOUR 5562. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4602 (3) Editorial, Commentary and Opinion Writing

Concentrates on several of the subjective areas of journalism. Emphasizes editorial and column writing, editorial pages and blogging. Prereq., JOUR 3001. Same as JOUR 5602. Prerequisites: Requires a prerequisite course of JOUR 3001.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4614 (1-3) Advanced Audio Practices

Applies advanced skills in producing in-depth audio programming for radio stations in Colorado and for weekly discussion-critique sessions. Prereq., JOUR 3614.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4624 (4) News Team

Students participate in Newsteam Boulder a program broadcast live over the Boulder cable television system. Prereq., JOUR 4354. Same as JOUR 5624. Prerequisites: Requires pre-requisite course of JOUR 4354. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Broadcast News (BCNS) majors only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4634 (1-3) Broadcast Projects

Covers interpretation, preparation, and/or reporting in programs for broadcast media. Prepares radio or television documentaries and informational/entertainment programs. Prereqs., JOUR 3604 and 3644, or instructor consent.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4651 (3) Media Law

Studies state and federal laws and court decisions that affect the media in order to develop knowledge of media rights and responsibilities and an understanding of the legal system. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

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JOUR-4674 (1-3) Television Production 3

Provides in-depth experience in directing and producing television programs. Prereq., JOUR 3674. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 85 hours taken. Prerequisites: Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 85 hours taken.

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JOUR-4684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Requires a prerequisite course of JOUR 3644. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 75 hours taken.

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JOUR-4702 (3) Arts/Cultural Reporting and Criticism

Emphasizes composition of criticism for the performing arts and other areas of entertainment. Prereq., JOUR 3001. Same as JOUR 5702.

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JOUR-4711 (3) Media and Culture

Examines culture in the form of discourse, symbols, and texts transmitted through the media. Explores the relationship between such mediated culture and social myth and ideology. Same as JOUR 5711.

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JOUR-4791 (3) Media and the Public

Provides an overview of how publishing in print and electronic forms has been tied closely to democratic ideals for centuries. Explores how the idea of the public is central to the theory and practice of media politics, and how the contested concepts of "the public sphere" and "public opinion" have long been linked to debates about the proper relationship between media and democratic citizenship. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5791. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4802 (3) Magazine and Feature Writing

Provides practice in writing freelance articles. Considers types, sources, methods, titles, illustrations, and freelance markets. Students submit work for publication. Prereq., JOUR 3001. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5802. Prerequisites: Requires prerequisite course of JOUR 3001. Restricted to Journalism and Mass Communication (JOUR) majors with a minimum of 75 hours taken.

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JOUR-4822 (3) Reporting on the Environment

Involves reporting and writing about the environment by taking into account the scientific, technological, political, economic, and cultural dimensions of environmental subjects. Same as JOUR 5822.

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| Journalism & Mass Communication Program | Journalism | Print & Online Journalism |
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JOUR-4841 (1-4) Undergraduate Independent Study

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4871 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-4872 (1-3) Special Topics: Print

Same as JOUR 5872. Prerequisites: Restricted to News-Editorial (NSED-BSJR or JNED-BSJR) students with 87-180 credits (Senior, Fifth Year Senior).

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4873 (1-3) Special Topics

Restricted to Journalism majors with a minimum of 75 hours taken. Prereqs., JOUR 3453, 3463, and 3473. Prerequisites: Restricted to Advertising (ADVT) majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4874 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4875 (6) Special Topics: Boulder Digital Works

May be repeated up to 24 credit hours. Pass/fail only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4931 (1-6) Internship

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5001 (1-4) Research in Journalism

Offers students the opportunity to participate in research projects with faculty members or pursue their own primary research interests.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5102 (3) Photojournalism Portfolio

Same as JOUR 4102.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-5201 (3) Media, Culture and Globalization

Same as JOUR 4201.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5272 (3) Principles of Public Relations

Same as JOUR 4272.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-5282 (3) Public Relations Strategy and Campaigns

Prereq., JOUR 5272 or instructor consent. Same as JOUR 4282. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-5301 (3) Media Ethics

Same as JOUR 4301.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5321 (3) Media Institutions and Economics

Same as JOUR 4321.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Same as JOUR 4331.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5344 (3) Video Documentary Production

Same as JOUR 4344.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-5453 (3) Advertising and Society

Same as JOUR 4453.

Journalism & Mass Communication Program Journalism Advertising & Media Design

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JOUR-5502 (3) Newsgathering 2

Prereqs., JOUR 5511 and 5552. Restricted to majors. Same as JOUR 4502. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5552 and is restricted to JOUR graduate students only.

[Journalism & Mass Communication Program](#)
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JOUR-5511 (3) Newsgathering 1

Covers problems and practice in reporting news of government, politics, the courts, and industry, business, science, and other areas involving public issues. For graduate students only. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

[Journalism & Mass Communication Program](#)
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JOUR-5512 (3) In-Depth Reporting

Shows how to dig beneath the surface of issues and events. Focuses on research, interviewing, and writing. Prereq., JOUR 5511.

[Journalism & Mass Communication Program](#)
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[Print & Online Journalism](#)

JOUR-5514 (3) Newsgathering for Television

Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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| Journalism & Mass Communication Program | Journalism | Broadcast Journalism |
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JOUR-5521 (3) Precision Journalism

Instructs students in computer-assisted reporting, including a knowledge of commercial databases, global information networks, and the use of spreadsheets to analyze census data and other complex information. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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| Journalism & Mass Communication Program | Journalism | Core Curr & General Electives |
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JOUR-5524 (3) Television Investigative Reporting

Covers how to produce quality, substantive, in-depth stories for television. Covers the basics of investigative reporting, research, and working with sources.

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| Journalism & Mass Communication Program | Journalism | Broadcast Journalism |
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JOUR-5552 (3) News Editing

Discusses principles and practice in copy editing and writing headlines for local and wire stories. Practice in page makeup, picture editing, and electronic editing. Prereq., JOUR 3001. Restricted to majors.

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| Journalism & Mass Communication Program | Journalism | Print & Online Journalism |
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JOUR-5562 (3) Digital Journalism

Same as JOUR 4562. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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| Journalism & Mass Communication Program | Journalism | Print & Online Journalism |
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JOUR-5602 (3) Editorial, Commentary and Opinion Writing

Prereq., JOUR 5511. Same as JOUR 4602. Prerequisites: Requires a prerequisite course of JOUR 5511.

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| Journalism & Mass Communication Program | Journalism | Print & Online Journalism |
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JOUR-5624 (4) News Team

Prereqs., JOUR 5511 and 5514. Same as JOUR 4624. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5514.

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| Journalism & Mass Communication Program | Journalism | Broadcast Journalism |
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JOUR-5634 (1-3) Broadcast Projects

Prereq., instructor consent. Same as JOUR 4634. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-5651 (3) Mass Communication Law

Studies state and federal laws and court decisions that affect mass communication in order to develop knowledge of mass media rights and responsibilities and an understanding of the legal system.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-5702 (3) Arts/Cultural Reporting and Criticism

Prereq., JOUR 5511. Same as JOUR 4702. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-5711 (3) Media and Culture

Same as Jour 4711.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5791 (3) Media and the Public

Same as JOUR 4791.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5802 (3) Magazine and Feature Writing

Prereq., JOUR 5511. Same as JOUR 4802. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5812 (3) Science Writing

Helps students acquire the basic skills and knowledge required of science journalists. Also examines issues of scientific importance such as climate change, the nature of scientific knowledge, and how science is covered in various media. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5822 (3) Reporting on the Environment

Same as JOUR 4822.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5841 (1-3) Graduate Independent Study

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5851 (1-6) Graduate Professional Project

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5861 (3) Visual Communication

Visual communication involves understanding both perception of messages and construction of them. Students analyze their visual thinking abilities and develop habits of visual analysis and criticism, as well as visual communication skills. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5871 (1-3) Special Topics

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5872 (1-3) Special Topics: Print

Same as JOUR 4872. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5873 (1-3) Special Topics: Advertising

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

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JOUR-5874 (1-3) Special Topics: Electronic Media

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

[Journalism & Mass Communication Program](#)
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JOUR-5931 (1-3) Internship

[Journalism & Mass Communication Program](#)
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JOUR-6051 (3) Media Theory

Studies theories and perspectives of mass communication and explores the role of mass media in society. Prerequisites: Restricted to Journalism & Mass Communication (JOUR), Communication (COMM or COMC) or Telecommunications (TELE) graduate students only.

[Journalism & Mass Communication Program](#)
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JOUR-6061 (3) Mass Communication Research

Continuation of JOUR 6051, emphasizing experimental and survey research methods.

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JOUR-6071 (3) Critical Theories of Media and Culture

Introduction to critical theories and analysis of media and popular culture. Examines major theoretical traditions and/or theorists that significantly inform media studies (e.g., culturalism, structuralism, Marxism, critical theory, feminism, psychoanalysis, post-structuralism) and applies these to media analysis and criticism. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6201 (3) Global Media and Culture

Covers mass communication within the international system, including similarities and differences in functions, facilities, and content; social theories of the press; and the international flow of mass communication. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6211 (3) Communication and International Development

Studies and analyzes communications technologies and techniques used in addressing social problems in developing countries.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6301 (3) Communication, Media, and Concepts of the Public

Introduces students to historical and contemporary uses of fundamental concepts in research and theory about media institutions, particularly public, community, mass, publicity, public space, public opinion, public interest, and the public sphere.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6311 (3) Seminar: Freedom of Expression

Studies free-speech issues in the context of current and historical philosophical foundations for freedom of expression.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6321 (3) Literary Journalism

Analyzes the work of journalists who became some of the greatest fiction writers of the 19th and 20th centuries, and examines the increasingly indistinct lines between journalism and narrative fiction. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6331 (3) Political Communication

Explores the dynamic relationships involving media and politics, focusing primarily on the American political system. Readings and seminar discussion incorporate normative and empirical perspectives on the media-politics complex. Areas covered include media effects on public opinion and policy, uses of media in governance, journalism sociology, coverage of elections, and implications of interactive media for governance and civic participation. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6341 (3) Children and the Media

Examining the concepts of children and childhood from the historical, social, cultural, economic and political perspectives, this course explores the interaction between mass media and the socialization and cultivation process of children and youth. Many theoretical traditions are used as a framework to study a variety of issues, such as multicultural literature for children and Disney's role in storytelling, and tween movies and the tweens. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6551 (3) Telecommunication Policy

Surveys historical and contemporary developments in telecommunications policy, emphasizing social and cultural dimensions, and focusing primarily on the context of the United States.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6651 (3) Media Law

Graduate seminar in communications law. Studies changing law and applied legal research techniques. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6661 (3) Media Ethics and Responsibility

Develops a theoretical framework with which to recognize and analyze ethical issues as they arise in the media. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6671 (3) Media, Myth, and Ritual

Anthropological and interpretative exploration of cultural practices of media audiences. Addresses theoretical and methodological implications of studying audiences from a culturalist perspective, with particular focus on media audience practices. Students engage in field research projects related to course content. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6711 (3) Mass Media and Pop Culture

Inquiry into relationship of the arts and the mass media, including study of critics, their function, and their works. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6721 (3) Message Effectiveness

Investigates how mass media messages work in terms of such effects as perception, learning and comprehension, and persuasion. Effectiveness is analyzed in terms of how well mass communication messages meet their objectives.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6771 (3) History of Mass Communication

Examines specialized areas in the history of mass communication. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6781 (3) Economic and Political Aspects of Mass Communication

Discusses economic problems and political issues relevant to newspapers, magazines, broadcasting, and CATV. Examines problems of telecommunications and the impact of future technology on mass communication.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6940 (1) Master's Degree Candidate

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-6951 (1-6) Master's Thesis

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7011 (3) Proseminar in Communication Theory 1

Introduces the principal concepts, literature, and theoretical and paradigmatic perspectives of media studies and mass communication and their ties and contributions to parallel domains in the social sciences and humanities. Prerequisites: Restricted to Communication (COMM or COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7021 (3) Proseminar in Communication Theory 2

Continuation of JOUR 7011. Prereq., JOUR 7011.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7051 (3) Qualitative Research Methods in Mass Communication

Examines various methods of qualitative data gathering and analysis in the mass media context. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

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JOUR-7061 (3) Quantitative Research Methods in Mass Communication

Examines various methods of quantitative data gathering methods and analysis in the mass media context.

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JOUR-7871 (3) Special Topics

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JOUR-8991 (1-10) Doctoral Thesis

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LAWS-5103 (1) Legal Ethics & Professionalism: What Kind of Lawyer Do You Want to Be?

Explores both the kind of law students might decide to practice and the ethical, personal, and professional commitments central to the practice of law. Students who elect to participate in this 1-unit elective are committing to enroll in the fall of the 2nd year in LAWS 6133 for 2 units, focusing on the Model Rules of Professional Conduct. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

LAWS-5121 (4) Contracts.

Covers basic principles of contract liability, offer, acceptance and consideration, statute of frauds, contract remedies, the parole evidence rule, performance of contracts, conditions, effect of changed circumstances, third-party beneficiaries, assignment, and specific performance.

[Law School](#) [Law](#) [Business](#)

LAWS-5201 (1) Entrepreneurship, Innovation and Public Policy

Explores cutting edge questions around entrepreneurship, including being an entrepreneur, leadership and what makes a great founding team, building and scaling a business, entrepreneurial communities, financing entrepreneurial companies, leadership in government, entrepreneurship and innovation policy. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

LAWS-5205 (3) Legislation and Regulation

Introduces lawmaking in the modern administrative state. Examines the way Congress and administrative agencies adopt binding rules of law (statutes and regulations, respectively) and the way

that implementing institutions--courts and administrative agencies--interpret and apply these laws. Considers the structure of the modern administrative state, the incentives that influence the behavior of the various actors, and the legal rules that help to structure the relationships among Congress, the agencies, and the courts. Restricted to LAWS students. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-5211 (1) Framing and Legal Narrative

Explores the role of framing effects in constructing a legal argument. From an appellate court opinion to closing statement to a jury to a white paper to a regulatory agency to a public campaign for a ballot proposition, the role of an overarching narrative is critical to effective persuasion. Prerequisites: Restricted to Law students only.

Law School | Law

LAWS-5223 (2) Legal Writing II

Students prepare appellate briefs and related documents and deliver oral arguments before a three-judge court composed of faculty, upper-division students, and practicing attorneys. Practice arguments are videotaped and critiqued.

Law School | Law | Litigation and Procedure

LAWS-5226 (2) Legal Writing I

Provides an intensive introduction to the resources available for legal research. Students also prepare written material of various kinds designed to develop research skills, legal writing style, and analysis of legal problems. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-5303 (4) Civil Procedure

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-5313 (3) Civil Procedure 2

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart.

Law School | Law | Litigation and Procedure

LAWS-5323 (1) Courtroom Observation Civil

An elective that requires fifteen hours observing actual civil proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-5425 (3) Torts

Studies nonconsensual allocation of losses for civil wrongs, focusing primarily on concepts of negligence and strict liability. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-5503 (4) Criminal Law

Studies statutory and common law of crimes and defenses, the procedures by which the law makes judgments as to criminality of conduct, the purposes of criminal law, and the constitutional limits upon it.

Law School | Law | Litigation and Procedure

LAWS-5513 (1) Courtroom Observation Criminal

An elective that requires fifteen hours observing actual criminal proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-5624 (4) Property

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls. Prerequisites: Restricted to Law students only.

Law School | Law | Property

LAWS-5634 (2-3) Property 2

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls.

Law School | Law | Property

LAWS-5803 (1) Courtroom Observation International

An elective that requires fifteen hours observing proceedings before an international tribunal(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. The proceedings observed will be available streaming online and the professor will provide information about how to gain access to them. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Prereq., LAWS 6112.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6004 (3) Real Estate Transactions

Focuses on legal issues that arise in all phases of real estate transactions, with an emphasis on the role of the lawyer in the business of real estate as well as on the regulation of real estate markets.

Law School | Law | Property

LAWS-6005 (4) Constitutional Law

Studies constitutional structure: judicial review, federalism, separation of powers; and constitutional rights of due process and equal protection.

Law School | Law | Government and Public

LAWS-6007 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Taxation

LAWS-6008 (3) The International Legal Order: History & Foundations (1500-1950)

Examines the structural and historical aspects of the international legal system. Examines contemporary attitudes, doctrines, and theories of international law by exploring the fundamental questions since the discipline's inception in the Sixteenth Century. Provides a working familiarity with the origins of Public International Law, International Human Rights Law, International Criminal Law, International Organizations, International Trade Law, Law and Development, and Conflict of Laws. Prerequisites: Restricted to Law students only.

Law School | Law | International

LAWS-6009 (4) Legal Aid Civil Practice 1

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-6011 (3) Payment Systems

Examines the methodology and policies of Articles 3 and 4 of the Uniform Commercial Code, dealing with such topics as negotiable instruments, bank deposits, collections, letters of credit, and electronic fund transfers.

Law School | Law | Business

LAWS-6019 (4) Civil Practice Clinic 2

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

Law School | Law | Practice: Clinical & Simulation

LAWS-6021 (3) Secured Transactions

Explores the methodology and policies of Article 9 of the Uniform Commercial Code, dealing with financing transactions in personal property.

Law School | Law | Business

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LAWS-5103 (1) Legal Ethics & Professionalism: What Kind of Lawyer Do You Want to Be?

Explores both the kind of law students might decide to practice and the ethical, personal, and professional commitments central to the practice of law. Students who elect to participate in this 1-unit elective are committing to enroll in the fall of the 2nd year in LAWS 6133 for 2 units, focusing on the Model Rules of Professional Conduct. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

LAWS-5323 (1) Courtroom Observation Civil

An elective that requires fifteen hours observing actual civil proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

LAWS-5513 (1) Courtroom Observation Criminal

An elective that requires fifteen hours observing actual criminal proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

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LAWS-5803 (1) Courtroom Observation International

An elective that requires fifteen hours observing proceedings before an international tribunal(s), attending a two-hour class meeting every other week, preparing and submitting a journal of

recorded observations. The proceedings observed will be available streaming online and the professor will provide information about how to gain access to them. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6103 (2-3) Legal Ethics Professionalism

Examines the legal profession as an institution, its history and traditions, and the ethics of the bar with particular emphasis on the professional responsibilities of the lawyer. Discusses the Model Rules of Professional Conduct. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6108 (3) Conflict of Laws

Addresses the conflicts that arise when the significant facts of a case are connected with more than one jurisdiction, whether that jurisdiction belongs to a state, the federal government, or a foreign government. The subject is studied in its theoretical and historical context, with special emphasis on the international aspects of extraterritorial jurisdiction.

Law School | Law | Jurisprudence and Perspective

LAWS-6113 (2) Legal Ethics and Professionalism: Ethics and the Law of Lawyering

Continuation of LAWS 5103. Focuses on the Model Rules of Professional Conduct. Provides the nuts and bolts of the ethical rules needed to begin to explore externships, clinics, pro bono projects and other practice experiences during law school. Prereq., LAWS 5103. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6308 (2) Law and Neuroscience

Covers neuroscience basics, and explores the relationship between the law and recent neuroscientific discoveries in domains including pain, memory, lie detection, psychopathy and criminal responsibility.

Law School | Law | Jurisprudence and Perspective

LAWS-6318 (3) Economic Analysis of Law

Introduces the basic elements of economic theory and emphasizes demand and utility, cost, and optimality. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6328 (3) Financial Decision-Making

Applies concepts, ideas, insights, and principles of modern finance to real-world situations that lawyers will face in many areas of law. Analyzes present discounted value (time value of money), risk versus return, asset diversification, portfolio theory, efficient markets hypothesis, arbitrage, financial options, real options, financial signals, human capital, behavioral finance, socially responsible investing, neurofinance, happiness finance, and financial bubbles and crashes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6338 (1) Understanding the Global Financial Crisis

Explores the causes and consequences of the global financial crisis. Analyzes financial instruments and institutions at the heart of the crisis -- including asset-backed securities, credit derivatives, government-sponsored entities, credit rating agencies, hedge funds, and financial conglomerates -- and places them in the context of a larger "shadow banking system". Examines the building blocks of financial reform.

Law School Law Jurisprudence and Perspective

LAWS-6503 (3) Law and Social Sciences

Explores disparities in criminal sentencing and death penalty cases; quality and effectiveness of legal representation for indigent criminal defendants; relationship between modifications in traditional steps in legal process; connection between alternative tort doctrines and volume of litigation, trial rates, plaintiff success rates and award size; impact of congressional statutes and US Supreme Court decisions on handling and outcomes of habeas corpus petitions.

Law School Law Jurisprudence and Perspective

LAWS-6508 (1) The Philosophy of Law

Questions the nature of law, characteristics and considerations of a legal system, rights and from where they come; thinking like a lawyer, basic techniques of legal reasoning, difference between doctrinal and normative legal analysis. Explores law's frontier and what distinguishes law from morality or politics. Focuses on influential texts from the end of WWII to the end of the Cold War. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6528 (3) Capital Punishment in America

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty.

Law School Law Jurisprudence and Perspective

LAWS-6708 (1-3) Special Topics

Explores special topics in law. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-7085 (2) Law and Religion

Uses judicial decisions as well as historical and theoretical materials to explore significant aspects of the relationship between law and religion. The religion clauses of the First Amendment are a central but not exclusive subject of study. Offered in alternate years.

Law School | Law | Jurisprudence and Perspective

LAWS-7128 (2-4) Jurisprudence

Addresses a number of fundamental questions, such as: What is law? What should it be? How is it created? Our readings consist of cutting-edge articles from leading modernist/postmodernist schools of thought including legal formalism, legal realism, interpretive theory, law and economics, feminist jurisprudence, critical legal studies, and law and literature. Same as LAWS 8128.

Law School | Law | Jurisprudence and Perspective

LAWS-8318 (2) Seminar: Law and Economics

Introduces the uses and limitations of microeconomic theory for understanding and resolving legal problems. Emphasizes concepts prominent in the law and economics literature such as cost, transaction costs, utility, and rational self interest.

Law School | Law | Jurisprudence and Perspective

LAWS-8505 (2) Sem Interdisciplinary Perspectives on Law and Social Change

Introduces legal institutions engaged in social change, from courts, to Congress, to bureaucracies and organizations. Posits tension between tasks of dispute resolution and public policy development and institutional adaptations. Considers the role of public opinion and the classics of legal formalism to more critical accounts. Considers postmodern theory and empirical legal scholarship. Presents alternatives to court-centered approaches to change, including community lawyering and organizing, law and social movements, and legislation. Prerequisites: Restricted to Law students only.

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LAWS-8538 (2) Seminar: Modern Legal Theory Core Ideas

Explores key ideas that have shaped American law and legal thought, such as Holmes' bad man, the Coase Theorem, the "Hunch" theory of law, and others. Focuses on researching and writing many short papers.

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LAWS-8548 (2) Seminar: Theory of Punishment

Explores the various justifications that philosophers have developed to explain why we have the right to punish. Examines the historical evolution of our punishment system and focuses on the

death penalty as a critical contemporary issue in the debate about the proper role of punishment in our society.

Law School | Law | Jurisprudence and Perspective

LAWS-8608 (2) Seminar: Power, Ethics, and Professionalism

Examines critically the possibility and character of ethical reasoning within the legal profession in light of its institutional structures. Explores descriptive/normative accounts of the profession's structure, "Professionalism," and individual conscience. Put simply, the seminar explores whether it is possible to be a good lawyer and ethical person.

Law School | Law | Jurisprudence and Perspective

LAWS-8728 (2) Seminar: Critical Theory Colloquium

Surveys critical legal theory; introduces the discipline of analytical engagement with law review literature; feminist legal theory, and critical race theory. Offers a deeper understanding of the purposes behind legal reforms, the interaction between law on the books and law in action, how different groups experience the law in different ways, and difficult yet rewarding nature of working through seemingly intractable and emotionally charged race, sex, and class issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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[LAWS-5121 \(4\) Contracts.](#)

Covers basic principles of contract liability, offer, acceptance and consideration, statute of frauds, contract remedies, the parole evidence rule, performance of contracts, conditions, effect of changed circumstances, third-party beneficiaries, assignment, and specific performance.

[Law School](#) [Law](#) [Business](#)

[LAWS-5201 \(1\) Entrepreneurship, Innovation and Public Policy](#)

Explores cutting edge questions around entrepreneurship, including being an entrepreneur, leadership and what makes a great founding team, building and scaling a business, entrepreneurial communities, financing entrepreneurial companies, leadership in government, entrepreneurship and innovation policy. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

[LAWS-6011 \(3\) Payment Systems](#)

Examines the methodology and policies of Articles 3 and 4 of the Uniform Commercial Code, dealing with such topics as negotiable instruments, bank deposits, collections, letters of credit, and electronic fund transfers.

[Law School](#) [Law](#) [Business](#)

[LAWS-6021 \(3\) Secured Transactions](#)

Explores the methodology and policies of Article 9 of the Uniform Commercial Code, dealing with financing transactions in personal property.

Law School Law Business

LAWS-6201 (3-4) Agency, Partnership, and the LLC

Surveys agency law whose principles are important in many other areas of law. Studies the legal organizations commonly used by small businesses: partnerships and limited liability companies (LLCs). Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6211 (3) Corporations

Covers formation of corporations and their management; relations among shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6221 (3) Principles of Auditing, Compliance, and Risk Management

Introduces the fundamental legal and business rules and processes involved in performing audit, compliance, and risk management. Investigates understanding and measuring risk, establishing standards for aggregating disparate information, gathering market data, calculating risk measures, and creating timely reporting tools for managing risk. Covers important regulations including Sarbanes-Oxley, HIPAA, and FISMA. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-6281 (3) Accounting Issues for Lawyers

Studies accounting and auditing problems in the form they are placed before the lawyer, including a succinct study of basic bookkeeping, in-depth legal analysis of the major current problems of financial accounting, and consideration of the conduct of the financial affairs of business.

Law School Law Business

LAWS-6511 (3) Labor Law

Includes the subjects of evolution of labor relations laws; how a collective bargaining relationship is established; negotiation of the collective bargaining agreement; labor and the antitrust laws; and rights of the individual worker. Course materials frame the issue of how a developed or postindustrial democracy deals with the problems that arise out of the employment relationship: of the choices between laissez-faire, substantive regulation, and the private ordering of the employment relationship through the collective bargaining process.

Law School Law Business

LAWS-6521 (3) Employment Law

Entails a survey of employment-at-will, workplace safety, workplace torts; ERISA and retirement, workers' compensation; controls on hours and wages; health insurance; disability and unemployment compensation.

Law School | Law | Business

LAWS-6541 (2) Colorado Worker's Compensation Theory and Practice

Introduces the legal theories that underlie the no-fault compensation system, its historical evolution, policy conundrums, and ethical quandaries. Teaches the application of the procedural rules most frequently utilized in administrative setting. Studies the Workers' Compensation Act, the Workers' Compensation Rules of Procedure, and the Office of Administrative Courts Rules of Procedure. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-6551 (3) Employee Benefits and Compensation Law

Examines past and present employee benefits and compensation practices among private and public employers. Covers ERISA and defined benefit, defined contribution, and welfare benefit plans; equity awards granted by corporations; equity awards granted by LLCs and partnerships; nonqualified deferred compensation and Section 409A of the IRS; golden parachutes and Sections 280G and 4999 of the IRC. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7011 (3) Creditors' Remedies and Debtors' Protection

Examines typical state rights and procedures for the enforcement of claims and federal and state law limitations providing protection to debtors in the process. Includes prejudgment remedies, statutory and equitable remedies, fraudulent conveyance principles, and exemptions and other judicial protections afforded debtors. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7021 (3-4) Bankruptcy

Briefly examines nonbankruptcy business rehabilitation devices, followed by basic principles of federal bankruptcy law and the bankruptcy court system. Concludes with attention to business reorganizations under Chapter 11 of the Bankruptcy Code. Recommended prereq., LAWS 6001 and 7011.

Law School | Law | Business

LAWS-7031 (3) Regulation of Financial Institutions

Focuses on the core banking law and works outward to cover a broader spectrum of bank-like financial institutions. Covers bank licensing, restrictions on bank business, regulating safety and soundness of banks, consumer protection of depositors and other bank customers, and regulatory examination and enforcement. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps, and warranties, capitalized terms, definitions, indemnifications and escrow). Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions.

Law School | Law | Business

LAWS-7111 (3) Contract Theory: Collisions of Contracting and Culture

Explores various contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, critical legal studies, law and society, relational theory, and others. Considers and critiques these theories as applied to particular contracting cultures, especially as applied to construction contracts.

Law School | Law | Business

LAWS-7121 (3) Advanced Contracts: Commercial Transactions

Studies Article 2 and Article 2A of the Uniform Commercial Code, together with the Convention and the International Sale of Goods. Advanced contracts topics are explored in depth. Among other subjects, warranties, title, remedies, and risk of loss in the sale of lease of goods will be studied.

Law School | Law | Business

LAWS-7201 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Same as TLEN 5270. Offered in alternate years.

Law School | Law | Business

LAWS-7211 (3) Business Planning

Focuses on the development and use of concepts derived from a number of legal areas in the context of business planning and counseling. Topics such as formation of business entities, sale of a business, recapitalization, division, reorganization, and dissolution are considered. Prereqs., LAWS 6007,6201, and 6251 or 6211.

Law School Law Business

LAWS-7221 (2-3) Government Regulation of Business.

Covers themes that explore the nature of the regulatory state and the realities of how businesses react to regulation. Provides an understanding of regulatory institutions; the tools of governmental regulation; and a critical perspective on regulation.

Law School Law Business

LAWS-7261 (3) Corporate Finance

Examines a variety of important legal issues related to the funding and financing corporations including creditor protection laws, the Trust Indenture Act of 1939, fiduciary duties, bond indenture provisions, securities laws, and rights of equity holders. Covers efficient capitalization structures, corporated valuation techniques, capital markets and the efficient market theory, and cost of capital concept. Prereq., LAWS 6211 or 6251.

Law School Law Business

LAWS-7271 (3) Venture Capital and Private Equity

Provides overview of the legal and financial principles to represent privately held companies, their founders and managers, and their investors. Emphasizes transaction structuring rather than judicial opinions. Includes the organization and financing of start-ups, structuring buyout transactions, exit strategies, legal organization of investment funds and other financial intermediaries. Discusses the relevant regulatory landscape, including securities law, bankruptcy, ERISA, and tax law.

Law School Law Business

LAWS-7331 (2) Sports Law

Covers the application of rules from agency, antitrust, contracts, constitutional law (including sex discrimination), labor law, property, torts, unincorporated associations, and other subjects to those persons involved in the production and delivery of athletic competition to consumers. Explores the development of the application of these rules to a sports setting and related economic issues. Prerequisites: Restricted to Law students only.

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LAWS-5103 (1) Legal Ethics & Professionalism: What Kind of Lawyer Do You Want to Be?

Explores both the kind of law students might decide to practice and the ethical, personal, and professional commitments central to the practice of law. Students who elect to participate in this 1-unit elective are committing to enroll in the fall of the 2nd year in LAWS 6133 for 2 units, focusing on the Model Rules of Professional Conduct. Prerequisites: Restricted to Law students only.

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LAWS-5121 (4) Contracts.

Covers basic principles of contract liability, offer, acceptance and consideration, statute of frauds, contract remedies, the parole evidence rule, performance of contracts, conditions, effect of changed circumstances, third-party beneficiaries, assignment, and specific performance.

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LAWS-5201 (1) Entrepreneurship, Innovation and Public Policy

Explores cutting edge questions around entrepreneurship, including being an entrepreneur, leadership and what makes a great founding team, building and scaling a business, entrepreneurial communities, financing entrepreneurial companies, leadership in government, entrepreneurship and innovation policy. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-5205 (3) Legislation and Regulation

Introduces lawmaking in the modern administrative state. Examines the way Congress and administrative agencies adopt binding rules of law (statutes and regulations, respectively) and the way that implementing institutions--courts and administrative agencies--interpret and apply these laws. Considers the structure of the modern administrative state, the incentives that influence the behavior of the various actors, and the legal rules that help to structure the relationships among Congress, the agencies, and the courts. Restricted to LAWS students. Prerequisites: Restricted to Law students only.

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LAWS-5205 (3) Legislation and Regulation

Introduces lawmaking in the modern administrative state. Examines the way Congress and administrative agencies adopt binding rules of law (statutes and regulations, respectively) and the way that implementing institutions--courts and administrative agencies--interpret and apply these laws. Considers the structure of the modern administrative state, the incentives that influence the behavior of the various actors, and the legal rules that help to structure the relationships among Congress, the agencies, and the courts. Restricted to LAWS students. Prerequisites: Restricted to Law students only.

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LAWS-5425 (3) Torts

Studies nonconsensual allocation of losses for civil wrongs, focusing primarily on concepts of negligence and strict liability. Prerequisites: Restricted to Law students only.

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LAWS-6005 (4) Constitutional Law

Studies constitutional structure: judicial review, federalism, separation of powers; and constitutional rights of due process and equal protection.

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LAWS-6065 (3) Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of the law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this course: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? Prerequisites: Restricted to Law students

only.

Law School | Law | Government and Public

LAWS-6128 (1-3) Legal Interpretation and the Legislative Process

Examines theories of legislation and the relation between legislatures and courts, emphasizing problems of statutory interpretation and other issues in the judicial use or misuse of statutes.

Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-6205 (3) Lawyers for Social Change

Helps students expand their perspective to understand the ways in which lawyers more broadly participate in social change work in this service learning class. Analyzes case histories of cause lawyering. The service learning component is based on the precept that one of the most effective ways to learn a role is to perform that role. Students will participate as social change lawyers by working with a local community to help it develop projects that the community believes will help it better itself. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7015 (3) First Amendment

Examines speech and religion clauses of the First Amendment. Includes the philosophical foundation of free expression, analytical problems in First Amendment jurisprudence, and the relationships between free exercise of religion and the separation of church and state. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7025 (3) Civil Rights Legislation

Presents a comprehensive study of federal civil rights statutes briefly reviewed in other courses (e.g., Constitutional Law or Federal Courts). Studies federal civil rights statutes, their judicial application, and their interrelationships as a discretely significant body of law of increasing theoretical interest and practical importance.

Law School | Law | Government and Public

LAWS-7055 (3) Education Law

Considers issues raised by the interaction of law and education. Issues may include the legitimacy of compulsory schooling, alternatives to public schools, socialization and discipline in the schools, and questions of equal educational opportunities.

Law School | Law | Government and Public

LAWS-7205 (3) Administrative Law

Covers practices and procedures of administrative agencies and limitations thereon, including the Federal Administrative Procedure Act, and the relationship between courts and agencies.

Law School | Law | Government and Public

LAWS-7255 (3) Local Government

Studies state legislative and judicial control of the activities, powers, and duties of local governmental units, including home-rule cities and counties, and some problems of federal, state, and local constitutional and statutory limitations on governmental powers when exercised by local governmental units (e.g., the powers to regulate private activities, tax, spend, borrow money, and condemn private property for public uses). Offered in alternate years.

Law School | Law | Government and Public

LAWS-7285 (2-3) Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers and provides an opportunity to grow as colleagues and teammates. Recommended prereq. LAWS 7055. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7325 (3) Election Law

Examines the rapidly evolving field of election law: the right to vote, voting procedures, redistricting, candidate selection, campaign finance laws, and direct democracy. Emphasizes federal law, including applicable constitutional jurisprudence.

Law School | Law | Government and Public

LAWS-7475 (2) Advanced Torts

Studies selected tort actions and theories. Topics covered may include "Dignitary torts" (e.g., defamation, privacy, etc.), business torts, and product liability. Offered in alternate years.

Law School | Law | Government and Public

LAWS-7515 (3) Poverty Law

Explores the legal and policy responses to poverty in the United States and addresses how the law shapes the lives of poor people and communities. Examines the extent of poverty in the United States, the root causes, and the historical development of social welfare policy. Focuses on the rights-based aspect of poverty law and various policies that attempt to ameliorate poverty.

Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7525 (3) Race and American Law

Examines the judiciary's approach to racial discrimination from America's colonial period to the present day. Concludes with an analysis of the contemporary status of racial subordination in the legal system and considers recent scholarly critiques of the law's limitations in effecting racial justice. Employs an interdisciplinary approach and covers the experiences of American Indians, African Americans, Asian Pacific Americans, and Chicana/os.

Law School | Law | Government and Public

LAWS-8005 (2) Seminar: Advanced Constitutional Law Equality and Privacy

Addresses "Equal Protection" rights under the Fourteenth Amendment and "Privacy" rights to personal autonomy. Analyzes varied constitutional grounds for recognizing or rejecting abortion rights; limits on Congressional power to pass civil rights laws granting broader rights than the Fourteenth Amendment does; treatment of sexual orientation-related laws and government actions as "Privacy" versus "Equality" matters; and "Benign"/"remedial" race- and sex-based government decisions such as affirmative action and same-sex schools.

Law School | Law | Government and Public

LAWS-8015 (1-3) Seminar: Constitutional Theory

Examines the role of the courts and the other branches of government in defining and enforcing constitutional values. Relevant readings are from philosophy, social sciences, and legal scholarship, as well as cases. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-8025 (2) Seminar: Advanced Topics in Federalism

Explores the development of "Our Federalism", the relationship between federal and state governments, from the founding period of the US Supreme Court's recent New Federalism jurisprudence. Studies historical material, commentary, and case law, and addresses how federalism is defined; the values that federalism serves; the role of federalism in our interconnected, global society; the Supreme Court's boundaries of federalism; the direction of New Federalism.

Law School | Law | Government and Public

LAWS-8035 (2) Seminar: Intersection of Antidiscrimination and First Amendment Law

Addresses past and continuing debates involving potential tensions between antidiscrimination principles and free speech, free exercise, and establishment clause values. Examines constitutional protections under the First Amendment and the equal protection clause, together with an array of existing and proposed federal and state antidiscrimination laws regulating employment, housing, and public accommodations, among other areas.

Law School | Law | Government and Public

LAWS-8045 (2) Seminar: Comparative Constitutional Law

Examines legal structures and concepts typically found in constitutions, including judicial review, distinction between legislative and executive authority, federalism and the principle of subsidiarity, the relationship between church and state, free speech and press, and social welfare rights. Examines differences between constitutional law and other domestic law, role of comparative constitutional law in domestic constitutional law adjudication. Emphasizes American and Swedish perspectives.

Law School | Law | Government and Public

LAWS-8055 (1-2) Seminar: Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this seminar: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? This is a year-long seminar.

Law School | Law | Government and Public

LAWS-8095 (2) Seminar: Problems in Constitutional Law

Explores how theories of social freedom and self-governance developed in the United States. Analyzes the most controversial socio-legal issues as they relate to privacy, equal protection and other questions of substantive due process. Discusses recent trends in national security and information privacy to evaluate their overall relevance to civil liberties and nascent influence on the fundamental rights debate in the US and abroad.

Law School | Law | Government and Public

LAWS-8205 (3) Seminar: Law and Democratic Governance

Explores cutting-edge debates in election law. Studies different perspectives on the current controversies in the field, in addition to select opportunities to engage scholars directly about their work. Develops students' understanding of the law of democracy, exposing students to some of the best scholarship, and improving students' ability to evaluate and critique legal scholarship. Recommended prereq., LAWS 7325. Same as PSI 7171. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-8285 (2-3) Seminar: Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply, and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers, and provides an opportunity to grow as colleagues and teammates. Requires extra time outside of class. Recommended prereq., LAWS 7055. Prerequisites: Restricted to Law students only.

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LAWS-5223 (2) Legal Writing II

Students prepare appellate briefs and related documents and deliver oral arguments before a three-judge court composed of faculty, upper-division students, and practicing attorneys. Practice arguments are videotaped and critiqued.

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LAWS-5303 (4) Civil Procedure

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Litigation and Procedure](#)

LAWS-5313 (3) Civil Procedure 2

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart.

[Law School](#) [Law](#) [Litigation and Procedure](#)

LAWS-5503 (4) Criminal Law

Studies statutory and common law of crimes and defenses, the procedures by which the law makes judgments as to criminality of conduct, the purposes of criminal law, and the constitutional

limits upon it.

Law School Law Litigation and Procedure

LAWS-6035 (3) White Collar Crime

Examines distinctions between white collar crime and other types of criminal activity and the needs for and arguments against white collar laws and law enforcement. Studies securities fraud, mail and wire fraud, insider trading, money laundering, false statements, conspiracy and criminal forfeiture statutes. Includes use of the grand jury, privileges applicable in the corporate setting, immunity, discovery and the impact of parallel civil proceedings. Examines effect of government policy on corporations and their counsel, pre-trial and trial strategy, jury selection, and victim notification and restitution options. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6045 (3) Criminal Procedure

Focuses primarily on the constitutional limitations applicable to such police investigative techniques as arrest, search, seizure, electronic surveillance, interrogation, and lineup identification. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6055 (3) Post-Conviction Criminal Procedure

Addresses sentencing process and schemes, direct appeals, probation modification and revocation, parole revocation, pardon and commutation processes, post-conviction litigation and appeal in both state and federal court, federal review of state convictions through habeas and/or the AEDPA, and ethical issues that arise in post-conviction proceedings. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6213 (2) Advanced Appellate Advocacy

Advanced study and practice of written and oral appellate advocacy. Builds on the foundation established in the required first-year course in appellate advocacy, but provides more extensive coverage, practice, and evaluation. Personalized instruction in brief writing, including detailed, one-on-one critique of their work. Include advanced techniques for organizing and writing a brief, and advanced instruction on the strategy and process of oral argument. Required to research, write, and rewrite an appellate brief, and conduct several oral arguments. Attend oral arguments of the United States Court of Appeals for the Tenth Circuit and the Colorado Court of Appeals. Prereq., LAWS 7106. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6353 (3) Evidence

Studies the methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6373 (3) Federal Litigation: Everything but the Trial

Litigates through all pretrial phases as plaintiff's counsel, a mock federal case: an employee's challenge to compensation and termination, with possible claims including breach of contract, breach of the implied covenant of good faith and fair dealing, violation of wage payment statutory and regulatory requirements, and fraudulent inducement to contract. Prereq., LAWS 6353. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6803 (3) Quantitative Methods

Equips students to deal effectively with experts, whether as consultants or as adverse witnesses, and to enable the identification of a quantitative issue. Helps students to become multi-dimensional in quantitative literacy. Enables students to be comfortable reading statistical arguments, performing basic analyses, writing about statistics, expressing quantitative ideas in graphs, questioning an expert, and understanding the power of computer programming.

Law School | Law | Litigation and Procedure

LAWS-7003 (3) Federal Courts

Looks at structure and jurisdiction of the federal courts, emphasizing problems of federalism and separation of powers and their relationship to resolution of substantive disputes.

Law School | Law | Litigation and Procedure

LAWS-7013 (2) Supreme Court Decision Making

Students deliberate over several important cases as "Justices" of the Supreme Court. Class is divided into three "Courts" with the first hour spent in deliberation and the second hour in discussion of the deliberative process as well as the substantive issues.

Law School | Law | Litigation and Procedure

LAWS-7023 (2) Jury Selection and History

Studies the history of the jury from ancient times through the implications of *Aprendi*, the grand jury from the time of Henry II through modern federal practice, and current jury selection procedures, both federal and Colorado, both civil and criminal. Experienced trial attorneys will work with students to demonstrate jury selection.

Law School | Law | Litigation and Procedure

LAWS-7045 (3) Criminal Procedure: Adjudicative Process

Focuses primarily on criminal procedure at and after trial. Looks at bail, prosecutorial discretion, discovery, plea bargaining, speedy trial, jury trial, the right to counsel at trial, double jeopardy, appeal, and federal habeas corpus.

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LAWS-7303 (3) Complex Civil Litigation

Covers civil procedure in modern complex multiparty suits, including class actions in such settings as employment discrimination and mass torts, and problems in discovery, joinder, res judicata, collateral estoppel, and judicial management in such suits. Offered in alternate years.

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LAWS-7333 (2) Advanced Evidence: Forensic Science and the Criminal Courts

Explores the admissibility of forensic science opinion and expert testimony, its use as evidence at a trial, and the challenges that such evidence may pose for the courts and the entire criminal justice system in the future.

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LAWS-7345 (2) Comparative Criminal Procedure

Takes an in-depth look at some of the basic features of modern criminal justice systems that share the civil law tradition with the hope that such study will provide a vehicle for a deeper understanding of the strengths and weaknesses of the American system of criminal justice. Prereq., LAWS 6045.

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LAWS-8335 (2) Seminar: Advanced Criminal Procedure

Focuses on a particular topic in criminal procedure. Topics include the privilege against self-incrimination, juries, and defense and prosecution ethics.

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LAWS-8409 (2) Seminar Special Problems in Conflict Resolution and Management

Develops a comprehensive description of dispute; creates a conflict assessment of the stakeholders in and dynamics of dispute; assess obstacles to and opportunities for mediation; recommend strategy for addressing and managing the dispute. Prerequisites: Restricted to Law students only.

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LAWS-8533 (2) Seminar: Criminal Law in Context: Legal and Social Images of Victims and Perpetrators

Contextualizes criminal law by engaging in an in depth study of the legal and social characterizations of victims and perpetrators in U.S. law, politics, and popular culture. Prerequisites: Restricted to Law students only.

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Number

LAWS-5226 (2) Legal Writing I

Provides an intensive introduction to the resources available for legal research. Students also prepare written material of various kinds designed to develop research skills, legal writing style, and analysis of legal problems. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Research and Writing](#)

LAWS-6206 (3) Litigation Drafting

Examines the intersection of civil procedure and legal writing. Emphasizes the drafting of persuasive adversarial litigation documents, including complaints, answers, motions in limine, motions to dismiss, motions of summary judgment, and jury instructions. Intensive writing and workshop format.

[Law School](#) [Law](#) [Research and Writing](#)

LAWS-6226 (2-3) Advanced Legal Research and Writing

Focuses on improvement of legal writing skills including organizing, drafting, and revising legal writing. Improves research and analysis skills. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Research and Writing](#)

LAWS-6236 (2) Judicial Opinion Writing

Places contemporary American judicial opinion in historical and comparative context. Analyzes individual and institutional writing choices that authors of judicial opinions must make and ethical dilemmas they must confront. Builds upon the first-year legal-writing curriculum. Challenges students to develop and defend their own opinion-writing approaches and styles as well as to write from approaches and in styles that are not their own.

Law School Law Research and Writing

LAWS-6458 (2) Creative Writing for Lawyers

Requires substantial writing and reading. Begins with participants bringing to class a piece of creative writing consisting of three to five thousand words. Each session consists of one hour of discussion and critique of an assigned writing exercise that everyone has prepared for the class, and one hour of workshop critique of each participant's longer work, in turn.

Law School Law Research and Writing

LAWS-6856 (2) Advanced Legal Research

Offers an in-depth look at research resources and methods. Includes sources from the judicial, legislative, and executive branches of federal and state government; research in topical areas such as environmental law, taxation, and international law; and extensive coverage of secondary and nonlaw resources. Covers both print and electronic sources. Students will have several assignments and a final project.

Law School Law Research and Writing

LAWS-6866 (1) Colorado Legal Research

Surveys resources and methods to effectively research Colorado law. Covers primary and secondary resources including Colorado statutes, cases and digests, regulations, and constitution and practice materials. Covers how to research Colorado municipal law and other Colorado topics. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6876 (2) Legal Research Skills for Practice

Approaches legal research from a practice-focused perspective using hands-on sessions in the library. Instructs: how to find and use resources specific to a particular practice area; how to evaluate and weigh strengths and weaknesses of the various legal resources available; and, how to use legal resources efficiently. Includes research strategies and methods, primary and secondary resources, and research using library catalogs and Westlaw, Lexis, and other vendors. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6886 (3) Advanced Legal Research and Analysis

Develops students' ability to think critically about and solve current legal problems. Evaluates the benefits and detriments of both print and on-line legal resources, and how to create an efficient research plan. Formulates and applies research strategies to real-world legal problems, and uses legal analysis to refine and improve research results. Note: students who have taken LAWS 6856 Advanced Legal Research course may not enroll in this course. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6896 (3) Advanced Legal Research and Writing for Practice

Advances and improves legal research and writing skills learned in first year. Proposes variety of assignment types across substantive and procedural areas to prepare for experiences as summer associates or new attorneys. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7846 (1-3) Independent Legal Research

Involves independent study and preparation of a research paper under faculty supervision. Students produce a research paper equivalent to a seminar research paper. a draft is submitted, subjected to critique by the faculty member, and redrafted. Available during or after the fifth semester of law school. Prereq., instructor consent. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7896 (1) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7906 (2) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7916 (1) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7926 (2) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7936 (1) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-7946 (2) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-8458 (2) Seminar: Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final paper will be required.

Law School | Law | Research and Writing

LAWS-9846 (1-2) LLM Seminar

LLM students study academic legal writing in this 1-credit per semester yearlong course. Topics covered will include: the purpose of academic legal writing; how academic legal writing differs from other forms of legal writing; topic selection; legal research (methods and ethics); first drafts; editing; academic workshops; and publishing. In addition, guest speakers will talk to LLM students about career planning and job seeking. International LLM students will learn about the American legal system. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-9856 (1-4) LL.M Thesis

LL.M students are required to write a thesis in order to graduate. Requires significant work of original research on a topic chosen in close consultation with advisors and other law school faculty, and assignments include due dates for topic selection, drafts, and workshop delivery. Thesis is worth two credits. In exceptional circumstances and only after pre-approval, an LL.M student may enroll for a third or fourth credit. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing



LAWS-5211 (1) Framing and Legal Narrative

Explores the role of framing effects in constructing a legal argument. From an appellate court opinion to closing statement to a jury to a white paper to a regulatory agency to a public campaign for a ballot proposition, the role of an overarching narrative is critical to effective persuasion. Prerequisites: Restricted to Law students only.

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LAWS-5223 (2) Legal Writing II

Students prepare appellate briefs and related documents and deliver oral arguments before a three-judge court composed of faculty, upper-division students, and practicing attorneys. Practice arguments are videotaped and critiqued.

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LAWS-5226 (2) Legal Writing I

Provides an intensive introduction to the resources available for legal research. Students also prepare written material of various kinds designed to develop research skills, legal writing style, and analysis of legal problems. Prerequisites: Restricted to Law students only.

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LAWS-5303 (4) Civil Procedure

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart. Prerequisites: Restricted to Law students only.

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LAWS-5313 (3) Civil Procedure 2

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart.

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LAWS-5624 (4) Property

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Property](#)

LAWS-5634 (2-3) Property 2

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls.

[Law School](#)
[Law](#)
[Property](#)

LAWS-6004 (3) Real Estate Transactions

Focuses on legal issues that arise in all phases of real estate transactions, with an emphasis on the role of the lawyer in the business of real estate as well as on the regulation of real estate markets.

[Law School](#)
[Law](#)
[Property](#)

LAWS-6104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; and construction problems in estate distribution. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

[Law School](#)
[Law](#)
[Property](#)

Law School | Law | Property

LAWS-6114 (2) Construction Law

Focuses on the basic principles and practices of construction law. Provides an overview of construction industry participants and players (engineers, contractors, insurers, etc.) and discusses and analyzes the various obligations and liabilities of these parties. Covers construction and design contracting, construction claims, professional negligence, construction insurance and suretyship, and ADR in construction. Provides transactional-practice oriented exercises.

Law School | Law | Property

LAWS-7024 (2-3) Real Estate Planning

Considers various contemporary legal problems involved in the ownership, use, development, and operation of real estate. Emphasizes the income tax and financing aspects of commercial and residential use and development such as shopping plazas and apartment buildings. Same as ACCT 6730.

Law School | Law | Property

LAWS-7154 (3) Land Use Planning

Explores mechanisms for public control of private land uses, such as planning, zoning, and regulation of land development; including consideration of federal and state constitutional and statutory limitations on local governments. Offered in alternate years.

Law School | Law | Property

LAWS-7164 (2) Land Conservation Law

Focuses on private land conservation efforts in the United States, and particularly Colorado, and also considers public land conservation programs. Analyzes real property principles and instruments used to protect land, and the development and acceptance of conservation easements in gross as a mechanism for protection, financing mechanisms for land conservation, including direct government funding and indirect funding through tax incentives at the federal, state and local levels. Understanding of Real Property and Tax concepts helpful.

Law School | Law | Property

LAWS-8104 (2) Seminar: Cities, Suburbs, and the Law

Explores dynamics that play out in the relationship between cities, suburbs, exurbs and other patterns of urban development. Explores the nature of local power, relations between local jurisdictions, and metropolitan and regional approaches to governance. Includes fiscal disparities, ethnic and racial segregation, sprawl and growth controls, affordable housing, transportation, and the urban/rural divide.

Law School | Law | Property

LAWS-9104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; construction problems in estate distribution. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-5323 (1) Courtroom Observation Civil

An elective that requires fifteen hours observing actual civil proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

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LAWS-5425 (3) Torts

Studies nonconsensual allocation of losses for civil wrongs, focusing primarily on concepts of negligence and strict liability. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Government and Public](#)

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LAWS-5503 (4) Criminal Law

Studies statutory and common law of crimes and defenses, the procedures by which the law makes judgments as to criminality of conduct, the purposes of criminal law, and the constitutional limits upon it.

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LAWS-5513 (1) Courtroom Observation Criminal

An elective that requires fifteen hours observing actual criminal proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Jurisprudence and Perspective](#)

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LAWS-5624 (4) Property

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls. Prerequisites: Restricted to Law students only.

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LAWS-5634 (2-3) Property 2

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls.

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LAWS-6002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Prereq., LAWS 6112.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

LAWS-6112 (3) Foundations of American Natural Resources Law

Introduces students to the law of natural resources. Examines the legal, historical, political, and intellectual influences that shape resources development and conservation. Same as ENVS 6112. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

LAWS-6302 (3) Water Resources

Analyzes regional and national water problems, including the legal methods by which surface and ground water supplies are allocated, managed, and protected. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

LAWS-6502 (2) Wildlife and the Law

Examines the law that protects wildlife, its habitat, and biodiversity. Explores human-caused threats including habitat destruction, illegal trade, and climate change. Focuses on statutes, case law, environmental ethics, and current controversies to highlight legal, scientific, and political strategies for protecting biodiversity. Particular emphasis is placed on the U.S. Endangered Species Act.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6602 (3) Cultural Property Law

Concerns domestic and International regulation of property that expresses group identity and experience. Organized around traditional categories of property (real, personal, and intellectual), the course covers historic preservation, archeological resources, art and museum law, with attention to indigenous people's advocacy on burial sites, traditional lands, ceremonies, music, symbols, ethnobotany, genetic information, and language. May satisfy upper-level writing requirement. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007, decision in Massachusetts v. EPA, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail competition. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6732 (3) Renewable Energy Project Finance and Development

Examines renewable energy and how legal topics impact financing projects. Reviews structure, regulation, and functioning of electric energy industry and laws applicable to development, ownership and operation of renewable energy projects across technologies. Addresses legal policy, economic and financing issues associated with expansion and improvement of the transmission grid to support renewable energy development. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7102 (2-3) Oil and Gas

Deals with the legal problems associated with private arrangements for the ownership and development of oil and gas: deeds and leases to oil and gas rights, trespass, adverse possession, implied covenants in leases, conveyances of fractional interests, and the interaction of private rights and conservation regulation. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7122 (2-3) Mining and Energy Law

Addresses major issues affecting the development of mineral resources through mining activity. Includes the regulation of the impacts of mining on the environment on both public and private land. Covers the Mining Law of 1872, the Federal Coal Leasing Amendments, and state regulation of the impacts of mining on the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7132 (3) Energy, Insecurity, Sustainable Law

Examines why national security deals not only with armed aggression and the ability to thwart military invasions or subversion, but also includes critical threats to vital national and international support systems such as the economy, energy, and the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7202 (3) Environmental Law

Examines and analyzes important federal pollution control statutes, including the National Environmental Policy Act, the Clean Air Act and Clean Water Act, Solid Waste Act, and Superfund. Considers related economic theory, ethics, and policy issues.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7212 (2) Environmental Litigation

Examines the litigation strategies and procedures used to enforce and defend against enforcement under environmental protection statutes, such as the Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, and the Toxic Substances Control Act. Covers civil enforcement, and citizen's suits.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7222 (2-3) Environmental Decision-Making

Explores the foundational issues that underlie agency decision-making, including environmental ethics, cost-benefit analysis, risk assessment, constitutional law, and administrative law. Compares and contrasts National Environmental Policy Act and the National Historic Preservation Act and the Endangered Species Act.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7232 (3) Energy Justice

Establishes why nearly a third of the world populated by the energy oppressed poor, presents a major national and international "legislative" or socio political problem calling for answers from

governments and civil societies in the developed and developing world. Explains and elucidates the concept of energy justice, its jurisprudential heritage, and its meaning and relevance in contemporary society. Case studies present problem solving frameworks spanning the political, social, behavioral, engineering, natural sciences, and law. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7402 (2) The Law of Toxic and Hazardous Wastes

Examines the EPA's federal hazardous waste statutes, including the Resource Conservation and Recovery Act of 1976 (RCRA), and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Analyzes the RCRA "Cradle-to-grave" hazardous waste program, and addresses the evolving CERCLA liability scheme and cleanup process.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7725 (3) American Indian Law I

Investigates the federal statutory, decisional, and constitutional law that bears upon American Indians, tribal governments, and Indian reservation transactions. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Prereq., LAWS 7725.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7745 (2-3) Jurisdiction in Indian Country

Examines the current state of the justice system within Indian nations today. Includes understanding the respective roles of tribal and state law enforcement authorities, as well as the Bureau of Indian Affairs' Office of Justice Services, the Federal Bureau of Investigation, and the Drug Enforcement Administration. Examines relationship between federal and tribal courts; substantive laws; and advocates who appear before them. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-8112 (2-3) Seminar: Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip, and requires additional field trip expenses. LAWS 6112 is strongly recommended as a prerequisite, however students must have taken or be concurrently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. May be repeated up to 6 total credit hours.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-8725 (2) Seminar: Advanced Topics in American Indian Law

Examines a variety of current issues related to American Indian Law. The topics will change to reflect the subjects that emerge at each time that the seminar is offered. Some examples of topics considered in this seminar include legal protections for American Indian religion and culture, cultural property, Tribal law, gaming law, and Native American natural and cultural resources law. Coreq., LAWS 7725.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Restricted to Law students only. Prereq., LAWS 6112. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9112 (2-3) Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip and requires additional field trip expenses. May be repeated up to 5 total credit hours. Restricted to Law students only. Recommended prereq., LAWS 6112 or students must have taken or be currently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007 decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail completion. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6007 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

[Law School](#)
[Law](#)
[Taxation](#)

LAWS-6138 (2-3) Federal Tax Politics

Studies the tax system as the nexus of politics and economics. Examines how various interests and entities use the many tools of political power to shape the tax system. Intended for those interested in politics and legislation, rather than for the tax specialist.

[Law School](#)
[Law](#)
[Taxation](#)

LAWS-6157 (3) Corporate Taxation

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Taxation](#)

LAWS-6167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., LAWS 6007.

[Law School](#) [Law](#) [Taxation](#)

LAWS-7207 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

LAWS-7217 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prerequisites: Requires pre-requisite course of LAWS 7207.

[Law School](#) [Law](#) [Taxation](#)

LAWS-7617 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation of income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Prereq., LAWS 6007 or 6157. Same as ACCT 6780.

[Law School](#) [Law](#) [Taxation](#)

LAWS-8407 (2) Seminar: Tax Policy

Explores current issues in tax policy. Topics may include the tax legislative process, consumption taxes, taxes and distributive justice, the tax exemption for nonprofits, carbon taxes, corporate taxes and integration, and taxes and entrepreneurship. Prereqs., Federal Income Tax and LAWS 6109. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

LAWS-9167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sales of interests, and liquidation. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

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[LAWS-6008 \(3\) The International Legal Order: History & Foundations \(1500-1950\)](#)

Examines the structural and historical aspects of the international legal system. Examines contemporary attitudes, doctrines, and theories of international law by exploring the fundamental questions since the discipline's inception in the Sixteenth Century. Provides a working familiarity with the origins of Public International Law, International Human Rights Law, International Criminal Law, International Organizations, International Trade Law, Law and Development, and Conflict of Laws. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [International](#)

[LAWS-6210 \(2-3\) Comparative Law](#)

Considers foreign solutions to certain key legal problems. Focuses on general problems of legal process, rather than on substantive rules. Topics include the role of lawyers, civil dispute resolution, criminal procedure, and employment discrimination. Covers different legal systems in different years.

[Law School](#) [Law](#) [International](#)

[LAWS-6220 \(3\) Introduction to Jewish/Israeli Law](#)

Outlines the history and basic principles of Jewish Law, Halakic system that encompasses Biblical law and the Rabbinic law. Covers Legal Sources of the Jewish laws, interpretation, legislation, custom, precedence and legal reasoning. Explores the study of modern legal system of the state of Israel and examines the problematic nature of the incorporation of the Law of personal status in the Rabbinical and in general courts. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [International](#)

[LAWS-6400 \(3\) International Law](#)

Examines the nature, structure, and sources of international law, the relationship between international law and domestic U.S. law, the role of international organizations such as the United Nations, the methods of resolving international disputes, the bases of international jurisdiction, and select substantive areas of international law that may change from semester to semester. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6420 (1) Law and the Holocaust

Explores comparative law, jurisprudence, conflicts of laws and international law. Examines the Nazi philosophy of law emanating from its egregious racial ideology, and how it was used to pervert Germany's legal system to discriminate against, ostracize, dehumanize, and eliminate certain classes of people. Studies the role of international law in rectifying the damage by bringing perpetrators to justice and constructing a legal system designed to prevent a repetition.

Law School Law International

LAWS-6510 (2-3) International Environmental Law

Examines international environmental law, including transboundary impacts and global issues. Addresses such issues as intergenerational equities, principles of compensation, and if international environmental norms should receive special environmental norm consideration. A course in public international law is not a prerequisite, but students who have not taken such a course will probably find it useful to do some additional background reading. Offered in alternate years.

Law School Law International

LAWS-6518 (3) Introduction to Islamic Law

Examines the Formative Era of Islamic Law, through its sources and methodologies. Examines the Established Era of the Schools of Law including differences between Sunni and Shiite Islamic Law. Examines human rights, terrorism, political Islam, women's rights and rights of religious minorities, criminal law, and finance law, and the growing role of fundamentalism in these areas. Examines the relevance of Islam and Islamic law in today's world.

Law School Law International

LAWS-6531 (3) Comparative Employment Law

In today's globalized world, lawyers are increasingly likely to encounter issues involving foreign employment. The course will provide substantive knowledge about foreign employment law and its relation to American law, as well as a comparative framework to assess the relative merits of the American approach to employment law.

Law School Law International

LAWS-7065 (3-4) Immigration and Citizenship Law

Covers legal issues pertaining to noncitizens of the United States, especially their right to enter and remain as immigrants and nonimmigrants. Topics include admission and exclusion, deportation, and refugees and political asylum. Approaches topics from various perspectives, including constitutional law, statutory interpretation, planning, ethics, history, and policy. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-7100 (2-3) International Criminal Law: Theory and Practice

Exposes students to the rapidly growing body of jurisprudence, both international and national, wherein international humanitarian and human rights law are being applied for the purposes of prosecution, trial and punishment of individuals alleged to be responsible for the commission of war crimes, crimes against humanity, genocide and, more recently, terrorism. Prereq., LAWS 6400.

Law School Law International

LAWS-7310 (3) International Dispute Settlement

Examines various mechanisms for the settlement of international disputes. Includes negotiation, inquiry, mediation, conciliation, arbitration, and adjudication. Focuses on intergovernmental dispute resolution.

Law School Law International

LAWS-7320 (3) International Criminal Law

Surveys international human rights law and international crime and punishment. Addresses idea of rights from a historical, philosophical, conceptual and analytical perspective; explores the "Primary rules of conduct" as well as adjudication and remedies, and selected rights from a comparative perspective. Recommended prereq., LAWS 6400.

Law School Law International

LAWS-7440 (3) International Human Rights and Humanitarian Law

Surveys international human rights both in law and in philosophy, both current and historical.

Law School Law International

LAWS-7605 (2) Refugee and Asylum Law

Focuses on protections offered under international and domestic law for persons who are threatened by persecution or other adverse conditions in their country of origin. Covers who is a refugee and the protections they have or do not have under United States and international law.

Law School Law International

LAWS-7611 (2-3) International Business Transactions

Examines the sources of international business law, the relationship between such law and the U.S. legal system, the choice of law in international business disputes, the special issues that arise when doing business with foreign governments, the law governing international sales and the shipment of goods, and international intellectual property protection. Offered in alternate years.

Law School Law International

LAWS-7615 (4) Immigration Law and Immigrants' Rights

Addresses four broad questions: Who is a citizen of the United States? Who else can come to this country? When and why can noncitizens be forced to leave? Who has the authority to answer these questions? These questions prompt us to examine the history of U.S. immigration, the constitutional-statutory-regulatory framework that governs immigration and citizenship law, and the federal agencies that administer it. Also addresses contemporary challenges to, and assertions of, immigrants' rights. Same as PSCI 7181. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-8310 (2) Seminar: International Crimes Punishment

Addresses issues in international criminal law in three parts: 1) basic contents of international law, 2) international criminal tribunals that enforce international criminal law, and 3) national efforts to bring international criminal prosecutions. Recommended prereqs., LAWS 6400 and 7440. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-8320 (2) Seminar: Oil and International Relations

Addresses the extent to which the international community of nations is oil dependent. Assesses the impact and the geopolitical dangers to international relations arising from the expanding demand for scarce oil from developing, as well as developed, economies.

Law School Law International

LAWS-8430 (2) Seminar: Comparative Public Health Law and Ethics

Compares public health law systems to those in other countries. Studies the goals, legal structures, and services provided, together with such issues of coercion as quarantines, monitoring, mandates and prohibitions, and forcing pharmaceutical companies to make available inexpensive generic drugs.

Law School Law International

Law School Law International

LAWS-9410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law International

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LAWS-5803 (1) Courtroom Observation International

An elective that requires fifteen hours observing proceedings before an international tribunal(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. The proceedings observed will be available streaming online and the professor will provide information about how to gain access to them. Prerequisites: Restricted to Law students only.

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LAWS-6002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Prereq., LAWS 6112.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

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LAWS-6004 (3) Real Estate Transactions

Focuses on legal issues that arise in all phases of real estate transactions, with an emphasis on the role of the lawyer in the business of real estate as well as on the regulation of real estate markets.

[Law School](#) [Law](#) [Property](#)

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LAWS-6005 (4) Constitutional Law

Studies constitutional structure: judicial review, federalism, separation of powers; and constitutional rights of due process and equal protection.

[Law School](#) [Law](#) [Government and Public](#)

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LAWS-6007 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

[Law School](#) [Law](#) [Taxation](#)

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LAWS-6008 (3) The International Legal Order: History & Foundations (1500-1950)

Examines the structural and historical aspects of the international legal system. Examines contemporary attitudes, doctrines, and theories of international law by exploring the fundamental questions since the discipline's inception in the Sixteenth Century. Provides a working familiarity with the origins of Public International Law, International Human Rights Law, International Criminal Law, International Organizations, International Trade Law, Law and Development, and Conflict of Laws. Prerequisites: Restricted to Law students only.

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LAWS-6009 (4) Legal Aid Civil Practice 1

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

[Law School](#)
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[Practice:Clinical & Simulation](#)

LAWS-6019 (4) Civil Practice Clinic 2

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

[Law School](#)
[Law](#)
[Practice:Clinical & Simulation](#)

LAWS-6029 (4) Legal Aid Criminal Practice 1

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Practice:Clinical & Simulation](#)

LAWS-6039 (4) Criminal Defense Clinic 2

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

Law School | Law | Practice: Clinical & Simulation

LAWS-6079 (4) Criminal Defense Clinic

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants. Develops working knowledge of courtroom skills, advocacy, and evidence presentation. Concludes with full mock trial. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-6109 (2) Trial Advocacy

Focuses on voir dire, opening statement, direct examination of witnesses, and cross examination. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-6119 (1) Deposition Skills

Provides valuable skills to assume active roles in the deposition process. Explores why and when to take depositions; drafting and objecting to deposition notices for individual deponents, non-party witnesses, and corporate designees; drafting successful outlines, proper questions and objections; using exhibits; furthering case theory, making and using stipulations; using depositions in pretrial motions and at trial. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7019 (1-2) Advanced Clinical Practicum

Enables a clinical student an optional 1-2 credit course to complete an ongoing clinic project that does not reach its natural conclusion during the regular term of the clinic. The practicum may be used in connection with any existing clinical course, but only with permission, and under the supervision of the clinical faculty member. A clinical student must complete a minimum of 50 hours of work per credit taken. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7029 (3) Appellate Advocacy Clinic

Provides a clinical course that enables students to work on briefs of criminal cases being handled by the Appellate Division of the Public Defender or Attorney General's Office. Instruction in oral advocacy is given. Enrollment limited to eight students.

Law School | Law | Practice: Clinical & Simulation

LAWS-7106 (1-2) Moot Court Competition

Offers an intensive involvement in legal research, appellate brief writing, and oral arguments in a competitive context. Student finalists may continue involvement in regional and national competitions. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7159 (2) Advanced Trial Advocacy

Offers an advanced course covering trial practice elements. Open only to students who have taken LAWS 6109. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7169 (2) Motions Advocacy

Provides practical training in preparing and arguing pretrial, post-trial, and chambers motions to an experienced federal judge based on materials from actual case files. Assigns some research papers. Limited to 15 third-year students with interest in trial advocacy and willingness to participate in confrontational exercises. Counts as practice hours. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7209 (4) Natural Resources Law Clinic

Offers hands-on experience in the practice of natural resources law in the Rocky Mountain region to a select number of clinic students. The clinic's docket of active cases focuses on public land law and the environmental statutes protecting those lands and their resources. Students participate in projects that test the full range of lawyering skills, including traditional litigation, administrative advocacy, legislative drafting, and the conduct of complex negotiations and settlements. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7309 (2-4) American Indian Law Clinic

Offers a clinical education course involving participation in the representation and advocacy of Indian causes---land or water claims, Indian religious freedom, job or other discrimination based on race, and issues implicating tribal sovereignty. Recommended prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7406 (1) International Moot Court Competition

Open only to students who actively participate in the seminar preparing for the competition, in the preparation of memorials for the competition, and in the practice of oral arguments or regional oral arguments.

Law School Law Practice: Clinical & Simulation

LAWS-7409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Credit is not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course.

Law School | Law | Practice:Clinical & Simulation

LAWS-7429 (2) Alternative Dispute Resolution

Examines a variety of dispute resolution processes, such as mediation, arbitration, minitrials, and court-annexed settlement procedures, as alternatives to traditional court adjudication. Credit not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7439 (2-3) Mediation

Explores mediation, one of the more important methods of alternative dispute resolution, and the legal issues that may arise related to mediation. Considers what kinds of persons and disputes are most appropriate for mediation. Includes role playing.

Law School | Law | Practice:Clinical & Simulation

LAWS-7449 (2-4) Juvenile Law Clinic

Examines the world of child welfare from the view of the child client, by representing their best interests in abuse and neglect cases. As Guardians ad litem, students will represent children in abuse and neglect cases from the beginning, at the temporary shelter hearing, through the conclusion of the case at a permanency orders hearing. Prereq., LAWS 6353. May be repeated up to 8 total credit hours.

Law School | Law | Practice:Clinical & Simulation

LAWS-7509 (1) Mock Trial Competition

Student teams further develop trial and advocacy skills in a competitive mock-trial format involving two or more rounds of trials. Requires preparation of trial briefs and drafting other court pleadings and documents. Credit is limited to the top two teams (six students). Student finalists may continue involvement in regional and national competitions. May be repeated within the term up to 4 total credit hours. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7609 (1-2) Law Practice Management

Studies the establishment of a solo or small-firm legal practice. Topics include the business structure (PC, LLC, etc.), office systems, marketing and development, staffing, liability insurance, managing time, technology, and billing. (This practice course counts toward the 14 credit hour maximum of practice hours.) Course supported by the Section of Law Practice Management of the ABA in memory of Harold A. Feder, CU Law '59.

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LAWS-7619 (2) Entrepreneurial Law Clinic

Advise indigent clients who need legal services in the founding of their business or not-for-profit firms, registering LLCs, and drafting employment and intellectual property agreements. Prereq., two of the following courses: Agency Partnership and the LLC, Corporations, Securities, Seminar on Corporate Law, Law and Finance for Entrepreneurs, Accounting Issues for Lawyers, Patent Law, Trademark, and International Business Transactions. Prerequisites: Restricted to Law students only.

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LAWS-7629 (1) Introduction to the In-House Practice of Law

Explores cutting edge questions around the practice of law as an employee of a business. Demonstrates how the combination of law and business can be valuable to businesses and also innovative, challenging and rewarding to legal professionals. Legal services to corporate America is changing dramatically with more entities relying on in-house counsel, compared to private practitioners, to obtain legal advice and counsel. Prerequisites: Restricted to Law students only.

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| Law School | Law | Practice:Clinical & Simulation |
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LAWS-7751 (3) Arbitration

Discusses the nature of arbitration, tactical considerations in whether to use this form or another form of dispute resolution, the drafting of effective contracts to arbitrate the enforceability of these contracts, and the enforcement of arbitration awards. Covers the preclusive effect of arbitration proceedings, multiparty arbitration, and choice of law. Students conduct simulated arbitrations.

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LAWS-7809 (2-4) Technology Law and Policy Clinic

Features technology law advocacy before administrative and legislative bodies. The mission of TLPC is: 1) to train and produce students equipped to conduct thoughtful analysis, and 2) provide unbiased assistance in the public interest concerning technology issues to regulatory entities, courts, legislatures and standard setting bodies. Recommended prereqs., LAWS 6301, 6318 or 7241. LAWS 7809 and TLEN 5250 are the same course.

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LAWS-6009 (4) Legal Aid Civil Practice 1

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

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LAWS-6011 (3) Payment Systems

Examines the methodology and policies of Articles 3 and 4 of the Uniform Commercial Code, dealing with such topics as negotiable instruments, bank deposits, collections, letters of credit, and electronic fund transfers.

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LAWS-6019 (4) Civil Practice Clinic 2

Emphasizes procedural and practical remedies and defenses available in civil litigation. Assigns civil cases related to the course material. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

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LAWS-6021 (3) Secured Transactions

Explores the methodology and policies of Article 9 of the Uniform Commercial Code, dealing with financing transactions in personal property.

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LAWS-6024 (3) Real Property Security

Examines basic mortgage law, including use of mortgage substitutes (e.g., deeds of trusts and installment land contracts). Covers foreclosure and redemption and related problems; special priority problems in land acquisitions and construction financing; special financing devices, including variable-interest and wraparound mortgages; and problems relating to the transfer of the mortgagor's and mortgagee's respective interests.

[Law School](#) [Law](#)

LAWS-6029 (4) Legal Aid Criminal Practice 1

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Practice:Clinical & Simulation](#)

LAWS-6031 (2) Consumer Protection Laws and Policies

Focuses on deceptive trade practices and consumer rights. Reviews the law of deception/misrepresentation at common law, and federal and state laws regarding unfair acts and practices. Covers credit practices, environmental and health claims, and telecommunications and privacy. Discusses remedies, including governmental enforcement actions, and individual and class actions.

[Law School](#) [Law](#)

LAWS-6035 (3) White Collar Crime

Examines distinctions between white collar crime and other types of criminal activity and the needs for and arguments against white collar laws and law enforcement. Studies securities fraud, mail and wire fraud, insider trading, money laundering, false statements, conspiracy and criminal forfeiture statutes. Includes use of the grand jury, privileges applicable in the corporate setting, immunity, discovery and the impact of parallel civil proceedings. Examines effect of government policy on corporations and their counsel, pre-trial and trial strategy, jury selection, and victim notification and restitution options. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6039 (4) Criminal Defense Clinic 2

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

Law School | Law | Practice: Clinical & Simulation

LAWS-6045 (3) Criminal Procedure

Focuses primarily on the constitutional limitations applicable to such police investigative techniques as arrest, search, seizure, electronic surveillance, interrogation, and lineup identification. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6049 (4) Legal Assistance 1: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

Law School | Law

LAWS-6055 (3) Post-Conviction Criminal Procedure

Addresses sentencing process and schemes, direct appeals, probation modification and revocation, parole revocation, pardon and commutation processes, post-conviction litigation and appeal in both state and federal court, federal review of state convictions through habeas and/or the AEDPA, and ethical issues that arise in post-conviction proceedings. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6059 (2-3) Legal Aid and Defender

Law School | Law

LAWS-6065 (3) Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of the law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this course: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-6069 (4) Immigration Clinic

Emphasizes practice skills in immigration cases. Includes litigation before Federal Immigration judges, Board of Immigration Appeals, and Federal Circuit Court of Appeals. Prereq. or coreq., LAWS 6353.

Law School | Law

LAWS-6079 (4) Criminal Defense Clinic

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants. Develops working knowledge of courtroom skills, advocacy, and evidence presentation. Concludes with full mock trial. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-6089 (4) Legal Assistance 2: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

Law School | Law

LAWS-6099 (4) Family Law Clinic

Represents low-income clients in family law cases in local state district court. Students will gain court-based experience in dissolution's and allocations of parental responsibilities. Seminar component includes instruction on substantive family law, related ethical issues, and theoretical backgrounds of poverty lawyering.

Law School | Law

LAWS-6103 (2-3) Legal Ethics Professionalism

Examines the legal profession as an institution, its history and traditions, and the ethics of the bar with particular emphasis on the professional responsibilities of the lawyer. Discusses the Model Rules of Professional Conduct. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; and construction problems in estate distribution. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Property

LAWS-6105 (2) Defending Immigrants in Criminal and Immigration Courts

Addresses legal procedures, pleadings and client advocacy matters involved in the representation of Spanish-speaking clients who have been arrested for criminal offenses and who have been issued a detainer by Immigration and Customs Enforcement for possible immigration removal proceedings. Provides overview of criminal defense concepts, and how criminal defense attorneys must be prepared to competently counsel their clients who are facing removal proceedings in the federal immigration system. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-6108 (3) Conflict of Laws

Addresses the conflicts that arise when the significant facts of a case are connected with more than one jurisdiction, whether that jurisdiction belongs to a state, the federal government, or a foreign government. The subject is studied in its theoretical and historical context, with special emphasis on the international aspects of extraterritorial jurisdiction.

Law School | Law | Jurisprudence and Perspective

LAWS-6109 (2) Trial Advocacy

Focuses on voir dire, opening statement, direct examination of witnesses, and cross examination. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-6112 (3) Foundations of American Natural Resources Law

Introduces students to the law of natural resources. Examines the legal, historical, political, and intellectual influences that shape resources development and conservation. Same as ENVS 6112. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6113 (2) Legal Ethics and Professionalism: Ethics and the Law of Lawyering

Continuation of LAWS 5103. Focuses on the Model Rules of Professional Conduct. Provides the nuts and bolts of the ethical rules needed to begin to explore externships, clinics, pro bono projects and other practice experiences during law school. Prereq., LAWS 5103. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6114 (2) Construction Law

Focuses on the basic principles and practices of construction law. Provides an overview of construction industry participants and players (engineers, contractors, insurers, etc.) and discusses and analyzes the various obligations and liabilities of these parties. Covers construction and design contracting, construction claims, professional negligence, construction insurance and suretyship, and ADR in construction. Provides transactional-practice oriented exercises.

Law School | Law | Property

LAWS-6117 (3) Survey of Business Enterprise Tax

Makes a comparative survey of federal income taxation of C corporations, S corporations, and partnership/limited liability companies, the principal entity choices for conducting business in the United States. Includes formation, operations, distributions, sales of interests, and liquidation. Suitable for students seeking introductory background for business or real estate practice, without the detail required for a tax specialist. Prereq., LAWS 6007.

Law School | Law

LAWS-6119 (1) Deposition Skills

Provides valuable skills to assume active roles in the deposition process. Explores why and when to take depositions; drafting and objecting to deposition notices for individual deponents, non-party witnesses, and corporate designees; drafting successful outlines, proper questions and objections; using exhibits; furthering case theory, making and using stipulations; using depositions in pretrial motions and at trial. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-6122 (2) International Natural Resources Law and Policy

Examines the suite of policy issues and legal ramifications associated with sustainable natural resource development. Examines most recent research on the "resource curse" theory. Examines recent policy developments and discussions that have occurred among industry, NGOs, multilateral development agencies and governments. Examines issues related to bribery and corruption in developing country environments, and dispute resolution mechanisms at national and local levels. Prerequisites: Restricted to Law students only.

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LAWS-6128 (1-3) Legal Interpretation and the Legislative Process

Examines theories of legislation and the relation between legislatures and courts, emphasizing problems of statutory interpretation and other issues in the judicial use or misuse of statutes.

Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Government and Public](#)

LAWS-6138 (2-3) Federal Tax Politics

Studies the tax system as the nexus of politics and economics. Examines how various interests and entities use the many tools of political power to shape the tax system. Intended for those interested in politics and legislation, rather than for the tax specialist.

[Law School](#) [Law](#) [Taxation](#)

LAWS-6157 (3) Corporate Taxation

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

LAWS-6167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., LAWS 6007.

Law School Law Taxation

LAWS-6179 (2) Trial Practice

Students apply the rules and doctrine of evidence in simulated trial settings. Must be taken with the corresponding section of Evidence. Enrollment is to 24. Satisfies the trial practice requirement and counts 2 hours toward the 14 credit hour maximum of clinical hours counted toward graduation. Graded course; not pass/fail.

Law School Law

LAWS-6201 (3-4) Agency, Partnership, and the LLC

Surveys agency law whose principles are important in many other areas of law. Studies the legal organizations commonly used by small businesses: partnerships and limited liability companies (LLCs). Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6205 (3) Lawyers for Social Change

Helps students expand their perspective to understand the ways in which lawyers more broadly participate in social change work in this service learning class. Analyzes case histories of cause lawyering. The service learning component is based on the precept that one of the most effective ways to learn a role is to perform that role. Students will participate as social change lawyers by working with a local community to help it develop projects that the community believes will help it better itself. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-6206 (3) Litigation Drafting

Examines the intersection of civil procedure and legal writing. Emphasizes the drafting of persuasive adversarial litigation documents, including complaints, answers, motions in limine, motions to dismiss, motions of summary judgment, and jury instructions. Intensive writing and workshop format.

Law School Law Research and Writing

LAWS-6210 (2-3) Comparative Law

Considers foreign solutions to certain key legal problems. Focuses on general problems of legal process, rather than on substantive rules. Topics include the role of lawyers, civil dispute resolution, criminal procedure, and employment discrimination. Covers different legal systems in different years.

Law School Law International

LAWS-6211 (3) Corporations

Covers formation of corporations and their management; relations among shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6213 (2) Advanced Appellate Advocacy

Advanced study and practice of written and oral appellate advocacy. Builds on the foundation established in the required first-year course in appellate advocacy, but provides more extensive coverage, practice, and evaluation. Personalized instruction in brief writing, including detailed, one-on-one critique of their work. Include advanced techniques for organizing and writing a brief, and advanced instruction on the strategy and process of oral argument. Required to research, write, and rewrite an appellate brief, and conduct several oral arguments. Attend oral arguments of the United States Court of Appeals for the Tenth Circuit and the Colorado Court of Appeals. Prereq., LAWS 7106. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6220 (3) Introduction to Jewish/Israeli Law

Outlines the history and basic principles of Jewish Law, Halakhic system that encompasses Biblical law and the Rabbinic law. Covers Legal Sources of the Jewish laws, interpretation, legislation, custom, precedence and legal reasoning. Explores the study of modern legal system of the state of Israel and examines the problematic nature of the incorporation of the Law of personal status in the Rabbinical and in general courts. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6221 (3) Principles of Auditing, Compliance, and Risk Management

Introduces the fundamental legal and business rules and processes involved in performing audit, compliance, and risk management. Investigates understanding and measuring risk, establishing standards for aggregating disparate information, gathering market data, calculating risk measures, and creating timely reporting tools for managing risk. Covers important regulations including Sarbanes-Oxley, HIPAA, and FISMA. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-6226 (2-3) Advanced Legal Research and Writing

Focuses on improvement of legal writing skills including organizing, drafting, and revising legal writing. Improves research and analysis skills. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6236 (2) Judicial Opinion Writing

Places contemporary American judicial opinion in historical and comparative context. Analyzes individual and institutional writing choices that authors of judicial opinions must make and ethical dilemmas they must confront. Builds upon the first-year legal-writing curriculum. Challenges students to develop and defend their own opinion-writing approaches and styles as well as to write from approaches and in styles that are not their own.

Law School Law Research and Writing

LAWS-6246 (2) Introduction to United States Legal System/Legal Reasoning, Research and Writing

Introduces students without a law degree to the basic structure and content of the United States legal system, examining how the three branches of government at the state and federal levels make law and policy in the United States. The course will provide a basic introductory overview of the following: the various sources of law, including an understanding of how statutes are enacted by legislative institutions; the role of the United States court system in interpreting laws; application of judicial precedent in common-law systems; trial and appellate court procedures; and judicial review standards. The course will also introduce students to the methodology of American law, including legal reasoning, research, and writing, through a variety of in-class and outside research and writing assignments.

Law School | Law

LAWS-6251 (4) Corporations

Covers formation of corporations and their management; relations between shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations.

Law School | Law

LAWS-6281 (3) Accounting Issues for Lawyers

Studies accounting and auditing problems in the form they are placed before the lawyer, including a succinct study of basic bookkeeping, in-depth legal analysis of the major current problems of financial accounting, and consideration of the conduct of the financial affairs of business.

Law School | Law | Business

LAWS-6301 (3) Introduction to Intellectual Property

Provides an overview of our nation's intellectual property laws, including patents, copyrights, trademarks, and trade secrets. Discusses other matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as TLEN 5245. Prerequisites: Restricted to Law students only.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-6302 (3) Water Resources

Analyzes regional and national water problems, including the legal methods by which surface and ground water supplies are allocated, managed, and protected. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6308 (2) Law and Neuroscience

Covers neuroscience basics, and explores the relationship between the law and recent neuroscientific discoveries in domains including pain, memory, lie detection, psychopathy and criminal responsibility.

Law School | Law | Jurisprudence and Perspective

LAWS-6311 (1) National Security and Privacy Law

Introduces national security and privacy law and relevant law, regulations, rules, policies, and guidelines.

Law School | Law

LAWS-6318 (3) Economic Analysis of Law

Introduces the basic elements of economic theory and emphasizes demand and utility, cost, and optimality. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6321 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Same as TLEN 5255. Prerequisites: Restricted to Law students only.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-6328 (3) Financial Decision-Making

Applies concepts, ideas, insights, and principles of modern finance to real-world situations that lawyers will face in many areas of law. Analyzes present discounted value (time value of money), risk versus return, asset diversification, portfolio theory, efficient markets hypothesis, arbitrage, financial options, real options, financial signals, human capital, behavioral finance, socially responsible investing, neurofinance, happiness finance, and financial bubbles and crashes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective



Courses

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LAWS-6331 (1) The Technology of Privacy

Explores the escalating debates by policymakers, scholars, advocates, and industry representatives about the growing spread of tracking and surveillance in society. Debates are being spurred by the pace of changes to technology and particularly of changes to Internet and mobile technology. Practitioners in information privacy law or technology policy must understand the past, present, and likely future of the technology of privacy. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Intell Prop, Tech, and Telecom](#)

LAWS-6338 (1) Understanding the Global Financial Crisis

Explores the causes and consequences of the global financial crisis. Analyzes financial instruments and institutions at the heart of the crisis -- including asset-backed securities, credit derivatives, government-sponsored entities, credit rating agencies, hedge funds, and financial conglomerates -- and places them in the context of a larger "shadow banking system". Examines the building blocks of financial reform.

[Law School](#) | [Law](#) | [Jurisprudence and Perspective](#)

LAWS-6353 (3) Evidence

Studies the methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Litigation and Procedure](#)

LAWS-6363 (5) Evidence and Trial Practice

Studies methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Applies rules and doctrine of evidence in simulated trial settings. Combined Evidence and Trial Practice course. Satisfies the trial practice requirement and counts two hours toward the 14 credit hour maximum in clinical hours.

Law School Law

LAWS-6373 (3) Federal Litigation: Everything but the Trial

Litigates through all pretrial phases as plaintiff's counsel, a mock federal case: an employee's challenge to compensation and termination, with possible claims including breach of contract, breach of the implied covenant of good faith and fair dealing, violation of wage payment statutory and regulatory requirements, and fraudulent inducement to contract. Prereq., LAWS 6353. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6400 (3) International Law

Examines the nature, structure, and sources of international law, the relationship between international law and domestic U.S. law, the role of international organizations such as the United Nations, the methods of resolving international disputes, the bases of international jurisdiction, and select substantive areas of international law that may change from semester to semester. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6415 (2-3) Drug Product Liability Litigation: Principles and Practice

Explores product liability lawsuits and litigation. Explores law of product liability and the tools necessary to successfully litigate these cases. Considers the theory and practice of lawsuits now and after the Supreme Courts landmark decision in Wyeth v. Levine (2009). Focuses on similarities and differences between the special context of FDA regulation. Considers the legal principles governing such lawsuits such as inadequate warning, the Learned intermediary Doctrine and medical causation.

Law School Law

LAWS-6420 (1) Law and the Holocaust

Explores comparative law, jurisprudence, conflicts of laws and international law. Examines the Nazi philosophy of law emanating from its egregious racial ideology, and how it was used to pervert Germany's legal system to discriminate against, ostracize, dehumanize, and eliminate certain classes of people. Studies the role of international law in rectifying the damage by bringing perpetrators to justice and constructing a legal system designed to prevent a repetition.

Law School Law International

LAWS-6458 (2) Creative Writing for Lawyers

Requires substantial writing and reading. Begins with participants bringing to class a piece of creative writing consisting of three to five thousand words. Each session consists of one hour of discussion and critique of an assigned writing exercise that everyone has prepared for the class, and one hour of workshop critique of each participant's longer work, in turn.

Law School Law Research and Writing

LAWS-6501 (2-3) The Practice of Labor and Employment Law

Focuses on aspects of the practice of employment law, rather than the examination of legal doctrines. Discusses typical issues presented in advising and litigating on behalf of employers and employees. Topics include special attention to ethical issues.

Law School Law

LAWS-6502 (2) Wildlife and the Law

Examines the law that protects wildlife, its habitat, and biodiversity. Explores human-caused threats including habitat destruction, illegal trade, and climate change. Focuses on statutes, case law, environmental ethics, and current controversies to highlight legal, scientific, and political strategies for protecting biodiversity. Particular emphasis is placed on the U.S. Endangered Species Act.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-6503 (3) Law and Social Sciences

Explores disparities in criminal sentencing and death penalty cases; quality and effectiveness of legal representation for indigent criminal defendants; relationship between modifications in traditional steps in legal process; connection between alternative tort doctrines and volume of litigation, trial rates, plaintiff success rates and award size; impact of congressional statutes and US Supreme Court decisions on handling and outcomes of habeas corpus petitions.

Law School Law Jurisprudence and Perspective

LAWS-6508 (1) The Philosophy of Law

Questions the nature of law, characteristics and considerations of a legal system, rights and from where they come; thinking like a lawyer, basic techniques of legal reasoning, difference between doctrinal and normative legal analysis. Explores law's frontier and what distinguishes law from morality or politics. Focuses on influential texts from the end of WWII to the end of the Cold War. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6510 (2-3) International Environmental Law

Examines international environmental law, including transboundary impacts and global issues. Addresses such issues as intergenerational equities, principles of compensation, and if international environmental norms should receive special environmental norm consideration. A course in public international law is not a prerequisite, but students who have not taken such a course will probably find it useful to do some additional background reading. Offered in alternate years.

Law School | Law | International

LAWS-6511 (3) Labor Law

Includes the subjects of evolution of labor relations laws; how a collective bargaining relationship is established; negotiation of the collective bargaining agreement; labor and the antitrust laws; and rights of the individual worker. Course materials frame the issue of how a developed or postindustrial democracy deals with the problems that arise out of the employment relationship: of the choices between laissez-faire, substantive regulation, and the private ordering of the employment relationship through the collective bargaining process.

Law School | Law | Business

LAWS-6513 (2) Crime Victims Rights and Victim Counseling and Advocacy

Involves highly experiential and participatory form of learning related to the rights and needs of victims of crime. Legal and constitutional aspects of crime victims' rights and advocacy are considered. Includes a training component by Moving to End Sexual Assault, a Boulder based organization. After training by MESA, students will complete 120 hours of volunteer service on the MESA hotline as well as attend various meetings. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-6518 (3) Introduction to Islamic Law

Examines the Formative Era of Islamic Law, through its sources and methodologies. Examines the Established Era of the Schools of Law including differences between Sunni and Shiite Islamic Law. Examines human rights, terrorism, political Islam, women's rights and rights of religious minorities, criminal law, and finance law, and the growing role of fundamentalism in these areas. Examines the relevance of Islam and Islamic law in today's world.

Law School | Law | International

LAWS-6521 (3) Employment Law

Entails a survey of employment-at-will, workplace safety, workplace torts; ERISA and retirement, workers' compensation; controls on hours and wages; health insurance; disability and unemployment compensation.

Law School | Law | Business

LAWS-6528 (3) Capital Punishment in America

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty.

Law School | Law | Jurisprudence and Perspective

LAWS-6531 (3) Comparative Employment Law

In today's globalized world, lawyers are increasingly likely to encounter issues involving foreign employment. The course will provide substantive knowledge about foreign employment law and its relation to American law, as well as a comparative framework to assess the relative merits of the American approach to employment law.

Law School | Law | International

LAWS-6541 (2) Colorado Worker's Compensation Theory and Practice

Introduces the legal theories that underlie the no-fault compensation system, its historical evolution, policy conundrums, and ethical quandaries. Teaches the application of the procedural rules most frequently utilized in administrative setting. Studies the Workers' Compensation Act, the Workers' Compensation Rules of Procedure, and the Office of Administrative Courts Rules of Procedure. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-6551 (3) Employee Benefits and Compensation Law

Examines past and present employee benefits and compensation practices among private and public employers. Covers ERISA and defined benefit, defined contribution, and welfare benefit plans; equity awards granted by corporations; equity awards granted by LLCs and partnerships; nonqualified deferred compensation and Section 409A of the IRS; golden parachutes and Sections 280G and 4999 of the IRC. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-6601 (3) Corporate Transactions in Latin America

Introduces students to an overview of Latin American commercial and civil law systems, looking closely at Napoleonic and Chilean law. Explores the choice legal structures available for Latin American corporations; contract law that regulates business transactions in Latin America; and exploration of the way in which Latin American countries have joined international business trade agreements that pertain to Latin American nations such as the Vienna Convention and Gatt.

Law School | Law

LAWS-6602 (3) Cultural Property Law

Concerns domestic and International regulation of property that expresses group identity and experience. Organized around traditional categories of property (real, personal, and intellectual), the course covers historic preservation, archeological resources, art and museum law, with attention to indigenous people's advocacy on burial sites, traditional lands, ceremonies, music, symbols, ethnobotany, genetic information, and language. May satisfy upper-level writing requirement. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

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[LAWS-6708 \(1-3\) Special Topics](#)

Explores special topics in law. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

[LAWS-6712 \(3\) Climate Change Law and Policy](#)

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007, decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

[LAWS-6722 \(3\) Energy Law and Regulation](#)

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail competition. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

[LAWS-6732 \(3\) Renewable Energy Project Finance and Development](#)

Examines renewable energy and how legal topics impact financing projects. Reviews structure, regulation, and functioning of electric energy industry and laws applicable to development, ownership and operation of renewable energy projects across technologies. Addresses legal policy, economic and financing issues associated with expansion and improvement of the transmission grid to support renewable energy development. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6803 (3) Quantitative Methods

Equips students to deal effectively with experts, whether as consultants or as adverse witnesses, and to enable the identification of a quantitative issue. Helps students to become multi-dimensional in quantitative literacy. Enables students to be comfortable reading statistical arguments, performing basic analyses, writing about statistics, expressing quantitative ideas in graphs, questioning an expert, and understanding the power of computer programming.

Law School | Law | Litigation and Procedure

LAWS-6856 (2) Advanced Legal Research

Offers an in-depth look at research resources and methods. Includes sources from the judicial, legislative, and executive branches of federal and state government; research in topical areas such as environmental law, taxation, and international law; and extensive coverage of secondary and nonlaw resources. Covers both print and electronic sources. Students will have several assignments and a final project.

Law School | Law | Research and Writing

LAWS-6866 (1) Colorado Legal Research

Surveys resources and methods to effectively research Colorado law. Covers primary and secondary resources including Colorado statutes, cases and digests, regulations, and constitution and practice materials. Covers how to research Colorado municipal law and other Colorado topics. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6876 (2) Legal Research Skills for Practice

Approaches legal research from a practice-focused perspective using hands-on sessions in the library. Instructs: how to find and use resources specific to a particular practice area; how to evaluate and weigh strengths and weaknesses of the various legal resources available; and, how to use legal resources efficiently. Includes research strategies and methods, primary and secondary resources, and research using library catalogs and Westlaw, Lexis, and other vendors. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6886 (3) Advanced Legal Research and Analysis

Develops students' ability to think critically about and solve current legal problems. Evaluates the benefits and detriments of both print and on-line legal resources, and how to create an efficient research plan. Formulates and applies research strategies to real-world legal problems, and uses legal analysis to refine and improve research results. Note: students who have taken LAWS 6856 Advanced Legal Research course may not enroll in this course. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6896 (3) Advanced Legal Research and Writing for Practice

Advances and improves legal research and writing skills learned in first year. Proposes variety of assignment types across substantive and procedural areas to prepare for experiences as summer associates or new attorneys. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-7003 (3) Federal Courts

Looks at structure and jurisdiction of the federal courts, emphasizing problems of federalism and separation of powers and their relationship to resolution of substantive disputes.

Law School | Law | Litigation and Procedure

LAWS-7005 (3) Media Law

Surveys common, statutory, and regulatory law as applied to the mass media. Focuses on the law as it affects the gathering and publishing of news. Also examines the regulation of the electronic media.

Law School | Law

LAWS-7011 (3) Creditors' Remedies and Debtors' Protection

Examines typical state rights and procedures for the enforcement of claims and federal and state law limitations providing protection to debtors in the process. Includes prejudgment remedies, statutory and equitable remedies, fraudulent conveyance principles, and exemptions and other judicial protections afforded debtors. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7013 (2) Supreme Court Decision Making

Students deliberate over several important cases as "Justices" of the Supreme Court. Class is divided into three "Courts" with the first hour spent in deliberation and the second hour in discussion of the deliberative process as well as the substantive issues.

Law School | Law | Litigation and Procedure

LAWS-7015 (3) First Amendment

Examines speech and religion clauses of the First Amendment. Includes the philosophical foundation of free expression, analytical problems in First Amendment jurisprudence, and the relationships between free exercise of religion and the separation of church and state. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7019 (1-2) Advanced Clinical Practicum

Enables a clinical student an optional 1-2 credit course to complete an ongoing clinic project that does not reach its natural conclusion during the regular term of the clinic. The practicum may be used in connection with any existing clinical course, but only with permission, and under the supervision of the clinical faculty member. A clinical student must complete a minimum of 50 hours of work per credit taken. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7021 (3-4) Bankruptcy

Briefly examines nonbankruptcy business rehabilitation devices, followed by basic principles of federal bankruptcy law and the bankruptcy court system. Concludes with attention to business reorganizations under Chapter 11 of the Bankruptcy Code. Recommended prereq., LAWS 6001 and 7011.

Law School | Law | Business

LAWS-7023 (2) Jury Selection and History

Studies the history of the jury from ancient times through the implications of Apprendi, the grand jury from the time of Henry II through modern federal practice, and current jury selection procedures, both federal and Colorado, both civil and criminal. Experienced trial attorneys will work with students to demonstrate jury selection.

Law School | Law | Litigation and Procedure

LAWS-7024 (2-3) Real Estate Planning

Considers various contemporary legal problems involved in the ownership, use, development, and operation of real estate. Emphasizes the income tax and financing aspects of commercial and residential use and development such as shopping plazas and apartment buildings. Same as ACCT 6730.

Law School | Law | Property

LAWS-7025 (3) Civil Rights Legislation

Presents a comprehensive study of federal civil rights statutes briefly reviewed in other courses (e.g., Constitutional Law or Federal Courts). Studies federal civil rights statutes, their judicial application, and their interrelationships as a discretely significant body of law of increasing theoretical interest and practical importance.

Law School | Law | Government and Public

LAWS-7029 (3) Appellate Advocacy Clinic

Provides a clinical course that enables students to work on briefs of criminal cases being handled by the Appellate Division of the Public Defender or Attorney General's Office. Instruction in oral advocacy is given. Enrollment limited to eight students.

Law School | Law | Practice: Clinical & Simulation

LAWS-7031 (3) Regulation of Financial Institutions

Focuses on the core banking law and works outward to cover a broader spectrum of bank-like financial institutions. Covers bank licensing, restrictions on bank business, regulating safety and soundness of banks, consumer protection of depositors and other bank customers, and regulatory examination and enforcement. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7045 (3) Criminal Procedure: Adjudicative Process

Focuses primarily on criminal procedure at and after trial. Looks at bail, prosecutorial discretion, discovery, plea bargaining, speedy trial, jury trial, the right to counsel at trial, double jeopardy, appeal, and federal habeas corpus.

Law School | Law | Litigation and Procedure

LAWS-7055 (3) Education Law

Considers issues raised by the interaction of law and education. Issues may include the legitimacy of compulsory schooling, alternatives to public schools, socialization and discipline in the schools, and questions of equal educational opportunities.

Law School | Law | Government and Public

LAWS-7061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps, and warranties, capitalized terms, definitions, indemnifications and escrow). Prerequisites: Restricted to Law students only.

Law School | Law | Business

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LAWS-7065 (3-4) Immigration and Citizenship Law

Covers legal issues pertaining to noncitizens of the United States, especially their right to enter and remain as immigrants and nonimmigrants. Topics include admission and exclusion, deportation, and refugees and political asylum. Approaches topics from various perspectives, including constitutional law, statutory interpretation, planning, ethics, history, and policy. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[International](#)

LAWS-7079 (2) Wrongful Convictions

Focuses on the issues and remedies in cases of people who have been convicted, whose traditional appellate remedies have been exhausted, and who continue to claim actual innocence. Preference given to those who have taken or are taking more criminal procedure courses.

[Law School](#)
[Law](#)

LAWS-7085 (2) Law and Religion

Uses judicial decisions as well as historical and theoretical materials to explore significant aspects of the relationship between law and religion. The religion clauses of the First Amendment are a central but not exclusive subject of study. Offered in alternate years.

[Law School](#)
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LAWS-7095 (2) Women in Law

Explores the role of women in the legal system by looking at women as parties, jurors, witnesses, lawyers, law professors, and judges. Explores the relationship of law and society to women as victims and offenders. Investigates law and society's response to adoption, lesbian/gay issues, rape, surrogate and bad mothers, and sexual harassment.

Law School Law

LAWS-7100 (2-3) International Criminal Law: Theory and Practice

Exposes students to the rapidly growing body of jurisprudence, both international and national, wherein international humanitarian and human rights law are being applied for the purposes of prosecution, trial and punishment of individuals alleged to be responsible for the commission of war crimes, crimes against humanity, genocide and, more recently, terrorism. Prereq., LAWS 6400.

Law School Law International

LAWS-7101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions.

Law School Law Business

LAWS-7102 (2-3) Oil and Gas

Deals with the legal problems associated with private arrangements for the ownership and development of oil and gas: deeds and leases to oil and gas rights, trespass, adverse possession, implied covenants in leases, conveyances of fractional interests, and the interaction of private rights and conservation regulation. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7105 (3) Family Law

Focuses on nature of marriage, actions for annulment and divorce, problems of alimony and property division, separation agreements, and custody of children. Also considers illegitimacy, abortion, contraception, the status of married women in common law and under modern statutes, and relations of parent and child. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-7106 (1-2) Moot Court Competition

Offers an intensive involvement in legal research, appellate brief writing, and oral arguments in a competitive context. Student finalists may continue involvement in regional and national competitions. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7111 (3) Contract Theory: Collisions of Contracting and Culture

Explores various contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, critical legal studies, law and society, relational theory, and others. Considers and critiques these theories as applied to particular contracting cultures, especially as applied to construction contracts.

Law School | Law | Business

LAWS-7115 (2) Juvenile Justice

Covers a wide array of issues dealing with the legal rights of the unborn, children, and juveniles. Covers the legal status of parent-child abuse, delinquency and crime, and emancipation. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-7116 (1) Barristers Council

Law School | Law

LAWS-7121 (3) Advanced Contracts: Commercial Transactions

Studies Article 2 and Article 2A of the Uniform Commercial Code, together with the Convention and the International Sale of Goods. Advanced contracts topics are explored in depth. Among other subjects, warranties, title, remedies, and risk of loss in the sale of lease of goods will be studied.

Law School | Law | Business

LAWS-7122 (2-3) Mining and Energy Law

Addresses major issues affecting the development of mineral resources through mining activity. Includes the regulation of the impacts of mining on the environment on both public and private land. Covers the Mining Law of 1872, the Federal Coal Leasing Amendments, and state regulation of the impacts of mining on the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7125 (2) Advanced Domestic Relations

Offers advanced study of several domestic relations subjects, including both theoretical and lawyering issues. Tentative subjects include discovery, client interviewing and deposition preparation, asset valuation, working with expert witnesses, children as clients, and alternative dispute resolution. Recommended prereq., LAWS 7105.

Law School | Law

LAWS-7128 (2-4) Jurisprudence

Addresses a number of fundamental questions, such as: What is law? What should it be? How is it created? Our readings consist of cutting-edge articles from leading modernist/postmodernist schools of thought including legal formalism, legal realism, interpretive theory, law and economics, feminist jurisprudence, critical legal studies, and law and literature. Same as LAWS 8128.

Law School | Law | Jurisprudence and Perspective

LAWS-7132 (3) Energy, Insecurity, Sustainable Law

Examines why national security deals not only with armed aggression and the ability to thwart military invasions or subversion, but also includes critical threats to vital national and international support systems such as the economy, energy, and the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7135 (3) Parent, Child, and State

Examines the legal rights of parents and children in a constitutional framework, as well as the state's authority to define and regulate the parent-child relationship. Addresses rights of parents and children to freedom of expression and religious exercise, termination of parental rights and adoption, paternity orientation, and culture in defining the family.

Law School | Law | Family, Gender, and Health

LAWS-7145 (3) Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the US as they affect children, families, and work. Enhances research and writing skills, including field and international research. Contributes to host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-7154 (3) Land Use Planning

Explores mechanisms for public control of private land uses, such as planning, zoning, and regulation of land development; including consideration of federal and state constitutional and statutory limitations on local governments. Offered in alternate years.

Law School | Law | Property

LAWS-7159 (2) Advanced Trial Advocacy

Offers an advanced course covering trial practice elements. Open only to students who have taken LAWS 6109. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7164 (2) Land Conservation Law

Focuses on private land conservation efforts in the United States, and particularly Colorado, and also considers public land conservation programs. Analyzes real property principles and instruments used to protect land, and the development and acceptance of conservation easements in gross as a mechanism for protection, financing mechanisms for land conservation, including direct government funding and indirect funding through tax incentives at the federal, state and local levels. Understanding of Real Property and Tax concepts helpful.

Law School | Law | Property

LAWS-7169 (2) Motions Advocacy

Provides practical training in preparing and arguing pretrial, post-trial, and chambers motions to an experienced federal judge based on materials from actual case files. Assigns some research papers. Limited to 15 third-year students with interest in trial advocacy and willingness to participate in confrontational exercises. Counts as practice hours. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7200 (3) Anthropology of Law

Reviews the relationship between the social and cultural features of both developed and developing country societies and the formal and informal legal institutions within them. Considers the nature of social control and constraint, judicial reasoning, fact finding, conciliation, mediation and arbitration, and legal discourse.

Law School | Law

LAWS-7201 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Same as TLEN 5270. Offered in alternate years.

Law School | Law | Business



Courses

Search by College, Department & Category

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LAWS-7202 (3) Environmental Law

Examines and analyzes important federal pollution control statutes, including the National Environmental Policy Act, the Clean Air Act and Clean Water Act, Solid Waste Act, and Superfund. Considers related economic theory, ethics, and policy issues.

[Law School](#)
[Law](#)
[Envir, Nat Resources, Amer Ind](#)

LAWS-7205 (3) Administrative Law

Covers practices and procedures of administrative agencies and limitations thereon, including the Federal Administrative Procedure Act, and the relationship between courts and agencies.

[Law School](#)
[Law](#)
[Government and Public](#)

LAWS-7207 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Taxation](#)

LAWS-7209 (4) Natural Resources Law Clinic

Offers hands-on experience in the practice of natural resources law in the Rocky Mountain region to a select number of clinic students. The clinic's docket of active cases focuses on public land law and the environmental statutes protecting those lands and their resources. Students participate in projects that test the full range of lawyering skills, including traditional litigation, administrative

advocacy, legislative drafting, and the conduct of complex negotiations and settlements. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7211 (3) Business Planning

Focuses on the development and use of concepts derived from a number of legal areas in the context of business planning and counseling. Topics such as formation of business entities, sale of a business, recapitalization, division, reorganization, and dissolution are considered. Prereqs., LAWS 6007, 6201, and 6251 or 6211.

Law School Law Business

LAWS-7212 (2) Environmental Litigation

Examines the litigation strategies and procedures used to enforce and defend against enforcement under environmental protection statutes, such as the Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, and the Toxic Substances Control Act. Covers civil enforcement, and citizen's suits.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7217 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prerequisites: Requires pre-requisite course of LAWS 7207.

Law School Law Taxation

LAWS-7221 (2-3) Government Regulation of Business.

Covers themes that explore the nature of the regulatory state and the realities of how businesses react to regulation. Provides an understanding of regulatory institutions; the tools of governmental regulation; and a critical perspective on regulation.

Law School Law Business

LAWS-7222 (2-3) Environmental Decision-Making

Explores the foundational issues that underlie agency decision-making, including environmental ethics, cost-benefit analysis, risk assessment, constitutional law, and administrative law. Compares and contrasts National Environmental Policy Act and the National Historic Preservation Act and the Endangered Species Act.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7228 (2) Intellectual Origins of the Constitution

Examines the views of the Constitution's framers as expressed in contemporaneous and antecedent writings and debates. Offered in alternate years.

Law School Law

LAWS-7232 (3) Energy Justice

Establishes why nearly a third of the world populated by the energy oppressed poor, presents a major national and international "legislative" or socio political problem calling for answers from governments and civil societies in the developed and developing world. Explains and elucidates the concept of energy justice, its jurisprudential heritage, and its meaning and relevance in contemporary society. Case studies present problem solving frameworks spanning the political, social, behavioral, engineering, natural sciences, and law. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7241 (3) Telecommunications Law and Policy

Examines laws governing telecommunications industries, including federal and state regulation and international aspects. Includes telephone, cable, satellite, cellular, and other wireless systems, and the Internet. Same as TLEN 5240. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7248 (3) History of Criminal Justice

Explores the social, cultural, and legal history of Anglo-American criminal justice from the 17th to the 20th centuries. Also examines tensions between various methods that historians employ to study crime and law.

Law School Law

LAWS-7251 (3) Non-Profit Law

Examines the creation of a non-profit organization, in particular whether to choose a trust or a corporate form, how to qualify for federal tax exemption, and differences between private foundations and public charities. Examines fiduciary duty issues, restrictions on political activity and private benefit, and unrelated business income tax. Addresses tax incentives for charitable giving and state fundraising laws.

Law School Law

LAWS-7255 (3) Local Government

Studies state legislative and judicial control of the activities, powers, and duties of local governmental units, including home-rule cities and counties, and some problems of federal, state, and local constitutional and statutory limitations on governmental powers when exercised by local governmental units (e.g., the powers to regulate private activities, tax, spend, borrow money, and condemn private property for public uses). Offered in alternate years.

Law School | Law | Government and Public

LAWS-7261 (3) Corporate Finance

Examines a variety of important legal issues related to the funding and financing corporations including creditor protection laws, the Trust Indenture Act of 1939, fiduciary duties, bond indenture provisions, securities laws, and rights of equity holders. Covers efficient capitalization structures, corporated valuation techniques, capital markets and the efficient market theory, and cost of capital concept. Prereq., LAWS 6211 or 6251.

Law School | Law | Business

LAWS-7271 (3) Venture Capital and Private Equity

Provides overview of the legal and financial principles to represent privately held companies, their founders and managers, and their investors. Emphasizes transaction structuring rather than judicial opinions. Includes the organization and financing of start-ups, structuring buyout transactions, exit strategies, legal organization of investment funds and other financial intermediaries. Discusses the relevant regulatory landscape, including securities law, bankruptcy, ERISA, and tax law.

Law School | Law | Business

LAWS-7285 (2-3) Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers and provides an opportunity to grow as colleagues and teammates. Recommended prereq. LAWS 7055. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7300 (2-3) International Litigation

Examines the special issues that arise in litigation in U.S. courts when one or more of the parties is a foreign individual, corporation, or government, or when the subject of the litigation concerns events occurring wholly or partly outside of this country. Includes personal jurisdiction over foreign defendants, extraterritorial service of process and evidence gathering, choice of forum, foreign sovereign immunity, the act of state doctrine, extraterritorial application of U.S. law, and recognition of enforcement of foreign judgments.

Law School | Law

LAWS-7301 (2-3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as TLEN 5265.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7303 (3) Complex Civil Litigation

Covers civil procedure in modern complex multiparty suits, including class actions in such settings as employment discrimination and mass torts, and problems in discovery, joinder, res judicata, collateral estoppel, and judicial management in such suits. Offered in alternate years.

Law School Law Litigation and Procedure

LAWS-7307 (3) Taxation of Natural Resources

Considers the federal income tax aspects applicable to the exploration for, the development of, and the operation of natural resources, as well as the financing thereof. Also considers oil and gas, hard minerals, timber, and water. Offered in alternate years. Recommended prereq., LAWS 6007.

Law School Law

LAWS-7309 (2-4) American Indian Law Clinic

Offers a clinical education course involving participation in the representation and advocacy of Indian causes---land or water claims, Indian religious freedom, job or other discrimination based on race, and issues implicating tribal sovereignty. Recommended prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

Law School Law Practice:Clinical & Simulation

LAWS-7310 (3) International Dispute Settlement

Examines various mechanisms for the settlement of international disputes. Includes negotiation, inquiry, mediation, conciliation, arbitration, and adjudication. Focuses on intergovernmental dispute resolution.

Law School Law International

LAWS-7311 (2-3) Patent Law

Covers selected topics, such as patentable subject matter, patentability, and utilization of patent rights through licensing and infringement litigation. Covers practice and procedure of the patent and trademark office.

Law School Law Intell Prop, Tech, and Telecom



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LAWS-7320 (3) International Criminal Law

Surveys international human rights law and international crime and punishment. Addresses idea of rights from a historical, philosophical, conceptual and analytical perspective; explores the "Primary rules of conduct" as well as adjudication and remedies, and selected rights from a comparative perspective. Recommended prereq., LAWS 6400.

[Law School](#)
[Law](#)
[International](#)

LAWS-7321 (1-2) IP and Technology Contracting

Covers transactions, and often high-tech deals involving intellectual property rights. Studies IP ownership; assignment or rights; commercialization transactions (licensing, distribution, strategic); antitrust; and emerging issues. Gives students essential tools to draft and analyze technology contracts. Prereqs., LAWS 6301 or 7301.

[Law School](#)
[Law](#)
[Intell Prop, Tech, and Telecom](#)

LAWS-7323 (2) Patent Litigation

Focuses on unique aspects of patent litigation: substantive patent law, civil procedure, federal jurisdiction, and litigation strategy; includes claim construction, infringement, anticipation and obviousness defenses, unenforceability challenges, declaratory judgments, injunctions, damages, settlements, licenses, and trial strategy. Of interest and useful to those interested in intellectual property generally, not just patents or in litigation.

[Law School](#)
[Law](#)
[Intell Prop, Tech, and Telecom](#)

LAWS-7325 (3) Election Law

Examines the rapidly evolving field of election law: the right to vote, voting procedures, redistricting, candidate selection, campaign finance laws, and direct democracy. Emphasizes federal law, including applicable constitutional jurisprudence.

Law School | Law | Government and Public

LAWS-7331 (2) Sports Law

Covers the application of rules from agency, antitrust, contracts, constitutional law (including sex discrimination), labor law, property, torts, unincorporated associations, and other subjects to those persons involved in the production and delivery of athletic competition to consumers. Explores the development of the application of these rules to a sports setting and related economic issues. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7333 (2) Advanced Evidence: Forensic Science and the Criminal Courts

Explores the admissibility of forensic science opinion and expert testimony, its use as evidence at a trial, and the challenges that such evidence may pose for the courts and the entire criminal justice system in the future.

Law School | Law | Litigation and Procedure

LAWS-7335 (1) The Law of Presidential Elections

Examines the laws and regulations that uniquely shape presidential selection, analyzing practical applications as well as the broader constitutional and policy considerations. A combination of federal, state, and local laws shapes how Americans select their president. But more than ever before, Americans are questioning the rules that influence presidential selection, such as the major party primary system, ballot access, presidential campaign financing, and the electoral college.

Law School | Law

LAWS-7341 (3) Trademark and Unfair Competition Law

Examines trademark protection, the interaction of trademark and unfair competition law with other intellectual property doctrines, the requirements for acquiring and retaining federal trademark rights, false advertising and other misrepresentations, the right of publicity and related claims, remedies for infringement, and international aspects of trademark protection.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-7345 (2) Comparative Criminal Procedure

Takes an in-depth look at some of the basic features of modern criminal justice systems that share the civil law tradition with the hope that such study will provide a vehicle for a deeper understanding of the strengths and weaknesses of the American system of criminal justice. Prereq., LAWS 6045.

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| Law School | Law | Litigation and Procedure |
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LAWS-7361 (2) Privacy, Security, and Digital Rights Management

Introduces students to the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act.

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| Law School | Law | Intell Prop, Tech, and Telecom |
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LAWS-7371 (3) Standardization and Standards Wars

Examines current issues in the standardization of telecommunications and information technologies. Covers the importance of standards, government and private sector perspectives, and the impact of information age technologies on standards of development. Emphasizes key national and international organizations.

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| Law School | Law | Intell Prop, Tech, and Telecom |
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LAWS-7375 (3) U.S. Races and Justice Systems

Examines the unique but related legal, social, and economic problems and accomplishments of those persons in this country whose ancestry originated in Africa, Asia, Latin America, or North America, and explores the developing literature on whites and whiteness.

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| Law School | Law |
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LAWS-7381 (3) Intellectual Property Counseling and Prosecution

Introduces strategic development and procurement of IP, including patents, trademarks, copyrights, and trade secrets. Evaluates the latest cases and legal trends from a practical and strategic perspective. Focuses on widely accepted best practices and critical thinking in these areas. Prerequisites: Restricted to Law students only.

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| Law School | Law |
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LAWS-7401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes.

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| Law School | Law | Business |
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LAWS-7402 (2) The Law of Toxic and Hazardous Wastes

Examines the EPA's federal hazardous waste statutes, including the Resource Conservation and Recovery Act of 1976 (RCRA), and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Analyzes the RCRA "Cradle-to-grave" hazardous waste program, and addresses the evolving CERCLA liability scheme and cleanup process.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7405 (2-3) Health Law 2: Medical Malpractice and Quality Regulation

Explores (1) the law controlling ethical issues that arise during the delivery of medical care, (2) the substantive law of medical malpractice and tort reform aimed at reducing the frequency and severity of medical malpractice verdicts, and (3) the practical aspects of litigating a medical malpractice case. Cross-listed at the Health Sciences Center; will include field trips there.

Law School | Law | Family, Gender, and Health

LAWS-7406 (1) International Moot Court Competition

Open only to students who actively participate in the seminar preparing for the competition, in the preparation of memorials for the competition, and in the practice of oral arguments or regional oral arguments.

Law School | Law | Practice:Clinical & Simulation

LAWS-7409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Credit is not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course.

Law School | Law | Practice:Clinical & Simulation

LAWS-7411 (2-3) Mergers, Acquisitions, and Reorganizations

Studies the planning of corporate mergers, acquisitions, and reorganizations, examining the application and integration of state corporate law, federal securities law, accounting principles, tax law, labor law, products liability law, environmental law, ERISA, and antitrust law.

Law School | Law | Business

LAWS-7420 (2) European Union Law

Covers all the essential aspects of the EU law: EU institutions, competences, the making and the application of EU law, and the content of the fundamental principles of EU law and the common market.

Law School | Law

LAWS-7425 (2-3) Health Law

Acquaints students with the issues arising at the interface between law and medicine through analysis of cases and other materials. Critically analyzes methods used by courts and legislatures to address medical/legal problems in an effort to determine whether the legal resolution was reasonable and appropriate in light of medical, social, and political considerations. Offered in alternate years.

Law School | Law | Family, Gender, and Health

LAWS-7428 (3) Bioethics Law and Literature

Interdisciplinary study of law, medicine, and bioethics. Addresses such issues as confidentiality in medical treatment, rejecting life-sustaining treatment, death and dying, reproductive law and genetic technology, human experimentation, and access to health care.

Law School | Law

LAWS-7429 (2) Alternative Dispute Resolution

Examines a variety of dispute resolution processes, such as mediation, arbitration, minitrials, and court-annexed settlement procedures, as alternatives to traditional court adjudication. Credit not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7439 (2-3) Mediation

Explores mediation, one of the more important methods of alternative dispute resolution, and the legal issues that may arise related to mediation. Considers what kinds of persons and disputes are most appropriate for mediation. Includes role playing.

Law School | Law | Practice:Clinical & Simulation

LAWS-7440 (3) International Human Rights and Humanitarian Law

Surveys international human rights both in law and in philosophy, both current and historical.

Law School | Law | International

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LAWS-7449 (2-4) Juvenile Law Clinic

Examines the world of child welfare from the view of the child client, by representing their best interests in abuse and neglect cases. As Guardians ad litem, students will represent children in abuse and neglect cases from the beginning, at the temporary shelter hearing, through the conclusion of the case at a permanency orders hearing. Prereq., LAWS 6353. May be repeated up to 8 total credit hours.

[Law School](#)
[Law](#)
[Practice: Clinical & Simulation](#)

LAWS-7451 (3) Law and Finance for Entrepreneurs

Studies unique legal problems faced by entrepreneurs, including formation issues (choice of entity, rights of the founders, initial investors), operation issues (governance, key employees, intellectual property, financing), IPOs, and buy-outs.

[Law School](#)
[Law](#)
[Business](#)

LAWS-7458 (2) Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final eight page paper are required.

[Law School](#)
[Law](#)

LAWS-7475 (2) Advanced Torts

Studies selected tort actions and theories. Topics covered may include "Dignitary torts" (e.g., defamation, privacy, etc.), business torts, and product liability. Offered in alternate years.

Law School | Law | Government and Public

LAWS-7505 (2) Sexuality and the Law

Examines the regulation of sexuality in local, state, and federal law, with particular emphasis on sexual orientation. Explores how sexuality shapes, and is shaped by, an array of laws and policies, which may include family law, military regulations, tax law, employment law, trusts and estates, obscenity law, and criminal law.

Law School | Law | Family, Gender, and Health

LAWS-7507 (2-3) State and Local Taxation

Examines the operation of the income, property and sales tax used to finance our state and local governments. Includes requirements of equal protection and due process. Covers jurisdiction to tax allocation of the tax base among different state and local governments. Same as ACCT 6760.

Law School | Law

LAWS-7509 (1) Mock Trial Competition

Student teams further develop trial and advocacy skills in a competitive mock-trial format involving two or more rounds of trials. Requires preparation of trial briefs and drafting other court pleadings and documents. Credit is limited to the top two teams (six students). Student finalists may continue involvement in regional and national competitions. May be repeated within the term up to 4 total credit hours. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7513 (3) Domestic Violence

Explores the law, policy, history, and theory of domestic violence. Examines the limits of legal methods and remedies for holding batterers accountable and keeping victims safe; the dynamics of abusive relationships; the history of the criminal justice system's response to domestic violence; the defenses available to battered persons who kill their abusers; the legal paradigm of the sympathetic victim; psychological and feminist theories about abusive relationships; civil rights and tort liability for batterers and third parties; and the intersection of domestic violence with international human rights.

Law School | Law | Family, Gender, and Health

LAWS-7515 (3) Poverty Law

Explores the legal and policy responses to poverty in the United States and addresses how the law shapes the lives of poor people and communities. Examines the extent of poverty in the United States, the root causes, and the historical development of social welfare policy. Focuses on the rights-based aspect of poverty law and various policies that attempt to ameliorate poverty. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-7523 (2) Juvenile Law

Takes a critical look at the juvenile justice system and how it responds to the needs of juveniles who are either delinquents and/or victims of abuse. Issues include the rights and responsibility of parents, parental responsibility programs, delinquents, and the future of our juvenile courts.

Law School Law

LAWS-7525 (3) Race and American Law

Examines the judiciary's approach to racial discrimination from America's colonial period to the present day. Concludes with an analysis of the contemporary status of racial subordination in the legal system and considers recent scholarly critiques of the law's limitations in effecting racial justice. Employs an interdisciplinary approach and covers the experiences of American Indians, African Americans, Asian Pacific Americans, and Chicana/os.

Law School Law Government and Public

LAWS-7529 (1) Appellate Advocacy Competition

Gives students the opportunity to participate in an intermural appellate advocacy competition, in which a brief must be filed and reviewed, critiqued, and deemed credit-worthy by a member of the faculty. (Law School Rule 3-2-9 (b) should be consulted prior to enrollment.)

Law School Law

LAWS-7541 (2-3) Employment Discrimination

Examines statutory and constitutional prohibitions of discrimination in employment on the basis of race, gender, age, religion, national origin, and disability.

Law School Law Business

LAWS-7601 (2-3) Business Transactions

Provides a practical understanding of how to apply the law in both transactional and litigation settings. Gives an interdisciplinary look at how various areas of the law are brought together in common factual settings. Teaches students to negotiate, document, and close the acquisition of a business covering the areas of practice of corporate, contracts, real property, secured transactions, and bankruptcy law. Tests, in a litigation setting, the decisions made during the acquisition stage.

Law School Law Business

LAWS-7605 (2) Refugee and Asylum Law

Focuses on protections offered under international and domestic law for persons who are threatened by persecution or other adverse conditions in their country of origin. Covers who is a refugee and the protections they have or do not have under United States and international law.

Law School Law International

LAWS-7609 (1-2) Law Practice Management

Studies the establishment of a solo or small-firm legal practice. Topics include the business structure (PC, LLC, etc.), office systems, marketing and development, staffing, liability insurance, managing time, technology, and billing. (This practice course counts toward the 14 credit hour maximum of practice hours.) Course supported by the Section of Law Practice Management of the ABA in memory of Harold A. Feder, CU Law '59.

Law School Law Practice:Clinical & Simulation

LAWS-7611 (2-3) International Business Transactions

Examines the sources of international business law, the relationship between such law and the U.S. legal system, the choice of law in international business disputes, the special issues that arise when doing business with foreign governments, the law governing international sales and the shipment of goods, and international intellectual property protection. Offered in alternate years.

Law School Law International

LAWS-7615 (4) Immigration Law and Immigrants' Rights

Addresses four broad questions: Who is a citizen of the United States? Who else can come to this country? When and why can noncitizens be forced to leave? Who has the authority to answer these questions? These questions prompt us to examine the history of U.S. immigration, the constitutional-statutory-regulatory framework that governs immigration and citizenship law, and the federal agencies that administer it. Also addresses contemporary challenges to, and assertions of, immigrants' rights. Same as PSCI 7181. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-7617 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation of income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Prereq., LAWS 6007 or 6157. Same as ACCT 6780.

Law School Law Taxation

LAWS-7619 (2) Entrepreneurial Law Clinic

Advise indigent clients who need legal services in the founding of their business or not-for-profit firms, registering LLCs, and drafting employment and intellectual property agreements. Prereq.,

two of the following courses: Agency Partnership and the LLC, Corporations, Securities, Seminar on Corporate Law, Law and Finance for Entrepreneurs, Accounting Issues for Lawyers, Patent Law, Trademark, and International Business Transactions. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7629 (1) Introduction to the In-House Practice of Law

Explores cutting edge questions around the practice of law as an employee of a business. Demonstrates how the combination of law and business can be valuable to businesses and also innovative, challenging and rewarding to legal professionals. Legal services to corporate America is changing dramatically with more entities relying on in-house counsel, compared to private practitioners, to obtain legal advice and counsel. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7725 (3) American Indian Law I

Investigates the federal statutory, decisional, and constitutional law that bears upon American Indians, tribal governments, and Indian reservation transactions. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Prereq., LAWS 7725.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7745 (2-3) Jurisdiction in Indian Country

Examines the current state of the justice system within Indian nations today. Includes understanding the respective roles of tribal and state law enforcement authorities, as well as the Bureau of Indian Affairs' Office of Justice Services, the Federal Bureau of Investigation, and the Drug Enforcement Administration. Examines relationship between federal and tribal courts; substantive laws; and advocates who appear before them. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7751 (3) Arbitration

Discusses the nature of arbitration, tactical considerations in whether to use this form or another form of dispute resolution, the drafting of effective contracts to arbitrate the enforceability of these contracts, and the enforcement of arbitration awards. Covers the preclusive effect of arbitration proceedings, multiparty arbitration, and choice of law. Students conduct simulated arbitrations.

Law School | Law | Practice:Clinical & Simulation

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LAWS-9209 (4) Natural Resources Law Clinic

Engages in litigation and advocacy aimed at protecting the natural resources of the Rocky Mountain region. Students will represent clients in matters involving public lands, wildlife, and other resources. The seminar component will focus on practical aspects of environmental litigation, including administrative practice and decision-making, client representation, citizen suits, and ethical issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Practice: Clinical & Simulation](#)

LAWS-9341 (3) Law and Economics of the Information Age

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Restricted to Law students only. Prereq., LAWS 7201, 7241 or 7301. Same as TLEN 5620. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

LAWS-9401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

LAWS-9409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Restricted to Law students only. Credit is not

given for LAWS 741 and this course. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-9410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | International

LAWS-9701 (2) Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Restricted to Law students only. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409 Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-9712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007 decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail completion. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Restricted to Law students only. Prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9846 (1-2) LLM Seminar

LLM students study academic legal writing in this 1-credit per semester yearlong course. Topics covered will include: the purpose of academic legal writing; how academic legal writing differs from other forms of legal writing; topic selection; legal research (methods and ethics); first drafts; editing; academic workshops; and publishing. In addition, guest speakers will talk to LLM students about career planning and job seeking. International LLM students will learn about the American legal system. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-9856 (1-4) LL.M Thesis

LL.M students are required to write a thesis in order to graduate. Requires significant work of original research on a topic chosen in close consultation with advisors and other law school faculty, and assignments include due dates for topic selection, drafts, and workshop delivery. Thesis is worth two credits. In exceptional circumstances and only after pre-approval, an LL.M student may enroll for a third or fourth credit. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

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BCOR-1010 (3) Introduction to Business

Provides an overview of how business works through the application and integration of the fundamental business functions of accounting, finance, management, marketing, and systems. Weekly discussion of current events will focus on entrepreneurship, international business, business and society, and career topics. Restricted to freshmen business majors. Prerequisites: Restricted to Business majors with less than 53 units.

[Leeds School of Business](#)
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BCOR-1020 (3) Business Statistics

Covers descriptive statistics, basic probability theory, statistical inference and hypothesis testing, correlation and simple linear regression analysis. Students learn decision making and solving business problems by using data. Uses statistical features of commonly used business spreadsheet software. Formerly BCOR 2010. Credit not granted for this course and MATH 2510. Prerequisites: Requires pre-requisite course of MATH 1071 or ECON 1078 or MATH 1001 or MATH 1011 or MATH 1150 or MATH 1300 or MATH 3130 or APPM 3310 or APPM 2360 or APPM 2380. Restricted to Business, ADVT or IAFS Majors only.

[Leeds School of Business](#)
[Business Core](#)

BCOR-2000 (4) Accounting and Financial Analysis

Builds a basic understanding of how information regarding a firm's resources and obligations is conveyed to decision makers both outside and within the firm. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to majors in Business, SPPR-PRO, IAFS, or students with WBE subplan.

[Leeds School of Business](#)
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BCOR-2200 (3) Introductory Finance

Emphasizes the concepts and skills needed to make sound financial decisions. Topics include financial statement analysis, time value of money, interest rates, bond valuation and bond markets, stock valuation and stock markets, cost of capital and capital structure, capital budgeting, financial forecasting, and working capital management. Formerly BCOR 2100. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101 and BCOR2000. Restricted to Bus., IAFS majors, students w/WBE subplan and 26-180 units completed.

Leeds School of Business Business Core

BCOR-2300 (3) Adding Value with Management

Focuses on how modern business firms compete in the global marketplace by adding value. Examines the value-chain of a firm and how firms use people, organizations, operations, and information systems to compete and win in world markets. Also covers contemporary issues such as total quality management, process reengineering, teams and team building, employee empowerment, and horizontal organizations. Prereq., BCOR 1010. Restricted to Business, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed. Formerly BCOR 2150. Prerequisites: Restricted to Business majors, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed.

Leeds School of Business Business Core

BCOR-2400 (3) Fundamentals of Marketing

Examines how activities in organizations provide value to the purchasers of its products and services. Includes gathering information about consumers and competitors through research and information systems, applying knowledge and technology to the design of products and services, communicating information to consumers and organizational units, and pricing and distributing products and services. Also includes issues in global marketing, ethics and diversity, relationship marketing, and integrating marketing with financial analyses. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101. Restricted to Bus., SPPR-PRO, IAFS, or ADVT majors, students w/WBE subplan and 26-180 units.

Leeds School of Business Business Core

BCOR-2500 (3) Introduction to Operations and Information Management

Takes a systems perspective in exploring the use of information, processes, and models used by businesses to produce goods and services and to effectively manage accounting, finance, human resources, strategy, supply chains/inventory, and other activities in a business. Focuses on making better business decisions faster through better business intelligence by using the right information, at the right time, provided to the right managers. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to Business majors with 13-180 units completed.

Leeds School of Business Business Core

BCOR-3000 (3) Business Law, Ethics, and Public Policy

Surveys major topics and case studies in business law, business ethics, and government policy. Business law topics include the American legal system, constitutional law, common law, contract principles, criminal and tort law, intellectual property, employment law, and personal and real property law. Ethics topics include the philosophy of law, legal versus moral issues, and professional responsibility. Public policy topics include the roles of business and government, types of government intervention, and the nature and theory of governmental policy formulation. Prerequisites: Restricted to Business majors, Spanish (SPPR) majors, students with a subplan of WBE, and 52-180 units completed.

Leeds School of Business Business Core

BCOR-3010 (3) Business Applications of Social Responsibility

Explores alternative views of the role of business in our global society through detailed case analyses, beginning with the free market view. This is a cross-functional area course that helps students to isolate and articulate their personal values that will shape business conduct. Emphasizes individual and organizational responsibility for business behavior in the broader social context.

Prerequisites: Requires pre-requisite courses of BCOR 2000, 2200, 2300, 2400 & 2500. Restricted to Business majors with 60-180 units completed.

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BADM-1250 (1) First Year Seminar for Business

Surveys the entire undergraduate experience and includes topics, issues, and practices that focus on the professional, academic, and leadership growth of a business student. It addresses how to make an effective transition to college and puts students on a path to become well-rounded, engaged and globally-minded. Students will acquire the knowledge and skills to take advantage of all the opportunities and support services available to them while learning to balance the challenges and expectations of their business degree. A sample of the topics covered include: transition to college, dealing with academic rigor, developing a professional tool kit--resume and cover letter preparation, interview skills, project management, working in teams and public speaking--and preparing for the role as a global business leader. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-1260 (2) First-Year Global Experience

In today's world of increased mobility, globally aware students have more choices for employment upon graduation and are immediately ready to contribute in global environments. They are aware of global issues and cultural differences, and their global mindset allows them to recognize good ideas from whenever they might come and new market/product opportunities wherever they might exist. This course is the first step toward the development of a global mindset. It provides a meaningful global experience to first-year business students through an in-depth perspective of a specific country or region outside the United States and a short academic trip to the region. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-2010 (1) Excel Lab

Teaches beginner to intermediate level Excel skills, emphasizing efficient use of Excel to make sense of substantial data sets. The course is designed to increase students' proficiency with Excel through a series of hands-on workshops. The workshops have a business problem solving orientation and use real data from Leeds' corporate partners. The workshops emphasize the most important skills that employers value. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-2050 (3) Honors/Special Topics

Variable topics in business, drawing from a variety of disciplines. Prereq., 3.50 minimum cumulative GPA.

Leeds School of Business | Business Administration

BADM-2880 (3) Special Topics

Explores historical developments, contemporary issues, industry trends, and best practices pertinent to the business of sports. The course examines how sports enterprises are managed, and the impacts that such enterprises have on the economic and social fabric of communities. The course is designed to provide sufficient background for educated consumption of this literature and pursuit of further study if desired. Restricted to sophomores/juniors/seniors.

Leeds School of Business | Business Administration

BADM-3100 (1) Professional Development

Designed to provide opportunities to understand and develop professional competencies for successful careers in business. Designed to increase knowledge of job search strategies and formulate a career management plan for transitioning to the workplace. Topics such as resumes, cover letters, personal branding, job search strategies, internships, career choices, networking and social media will be covered. A Self-Marketing Plan will be developed to help focus on long-term career goals. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Leeds School of Business (BUSN) majors only.

Leeds School of Business | Business Administration

BADM-3880 (3) Special Topics

Introduces students to the many facets of the marketing of sport and marketing through sport. Theoretical and practical applications of marketing sport are examined. The course will provide students with an understanding of current marketing concepts, and best business practices, related to sports enterprises and a foundation for pursuit of further study and work in sports and event marketing. Restricted to juniors/seniors.

Leeds School of Business | Business Administration

BADM-3930 (1-6) Internship

Student training and participation in government or industry environment under faculty supervision. Prereqs., BCOR 1000, 2000, 2010, 2050, GPA 2.50, junior standing and instructor consent.

Leeds School of Business | Business Administration

BADM-4820 (1-6) Special Topics

Variable topics in business drawing from a variety of business disciplines. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Business Administration

BADM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Administration. Restricted to juniors/seniors.

Leeds School of Business Business Administration

BADM-4830 (1-3) Special Topics

Various topics in business and society drawing from a variety of business disciplines. Restricted to junior/senior BU majors. Prerequisites: Restricted to College of Business majors only.

Leeds School of Business Business Administration

BADM-4910 (2) VITA-Volunteer Tax Assistance

Offers students the opportunity to gain professional work experience in an accounting position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Prereqs., BCOR 2000 and ACCT 4440 or ACCT 5440. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Business Administration

BADM-6820 (1-3) Topics in Business Administration

Offered irregularly to provide opportunity to investigate new topics in business administration.

Leeds School of Business Business Administration

BADM-6930 (3) Commercializing Sustainable Energy Technologies

Addresses the opportunities and problems of commercializing new renewable energy technologies. Focuses on energy markets, opportunity identification, life cycle analysis, policy economics, project financing, and economic analysis as they relate to bringing renewable energy technologies to market.

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BCOR-1010 (3) Introduction to Business

Provides an overview of how business works through the application and integration of the fundamental business functions of accounting, finance, management, marketing, and systems. Weekly discussion of current events will focus on entrepreneurship, international business, business and society, and career topics. Restricted to freshmen business majors. Prerequisites: Restricted to Business majors with less than 53 units.

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BCOR-1020 (3) Business Statistics

Covers descriptive statistics, basic probability theory, statistical inference and hypothesis testing, correlation and simple linear regression analysis. Students learn decision making and solving business problems by using data. Uses statistical features of commonly used business spreadsheet software. Formerly BCOR 2010. Credit not granted for this course and MATH 2510.

Prerequisites: Requires pre-requisite course of MATH 1071 or ECON 1078 or MATH 1001 or MATH 1011 or MATH 1150 or MATH 1300 or MATH 3130 or APPM 3310 or APPM 2360 or APPM 2380. Restricted to Business, ADVT or IAFS Majors only.

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BADM-1250 (1) First Year Seminar for Business

Surveys the entire undergraduate experience and includes topics, issues, and practices that focus on the professional, academic, and leadership growth of a business student. It addresses how to make an effective transition to college and puts students on a path to become well-rounded, engaged and globally-minded. Students will acquire the knowledge and skills to take advantage of all the opportunities and support services available to them while learning to balance the challenges and expectations of their business degree. A sample of the topics covered include: transition to college, dealing with academic rigor, developing a professional tool kit--resume and cover letter preparation, interview skills, project management, working in teams and public speaking--and preparing for the role as a global business leader. Prerequisites: Restricted to College of Business majors only.

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BADM-1260 (2) First-Year Global Experience

In today's world of increased mobility, globally aware students have more choices for employment upon graduation and are immediately ready to contribute in global environments. They are aware of global issues and cultural differences, and their global mindset allows them to recognize good ideas from whenever they might come and new market/product opportunities wherever they might exist. This course is the first step toward the development of a global mindset. It provides a meaningful global experience to first-year business students through an in-depth perspective of a specific country or region outside the United States and a short academic trip to the region. Prerequisites: Restricted to College of Business majors only.

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BCOR-2000 (4) Accounting and Financial Analysis

Builds a basic understanding of how information regarding a firm's resources and obligations is conveyed to decision makers both outside and within the firm. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to majors in Business, SPPR-PRO, IAFS, or students with WBE subplan.

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BADM-2010 (1) Excel Lab

Teaches beginner to intermediate level Excel skills, emphasizing efficient use of Excel to make sense of substantial data sets. The course is designed to increase students' proficiency with Excel through a series of hands-on workshops. The workshops have a business problem solving orientation and use real data from Leeds' corporate partners. The workshops emphasize the most important skills that employers value. Prerequisites: Restricted to College of Business majors only.

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BADM-2050 (3) Honors/Special Topics

Variable topics in business, drawing from a variety of disciplines. Prereq., 3.50 minimum cumulative GPA.

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BCOR-2200 (3) Introductory Finance

Emphasizes the concepts and skills needed to make sound financial decisions. Topics include financial statement analysis, time value of money, interest rates, bond valuation and bond markets, stock valuation and stock markets, cost of capital and capital structure, capital budgeting, financial forecasting, and working capital management. Formerly BCOR 2100. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101 and BCOR2000. Restricted to Bus., IAFS majors, students w/WBE subplan and 26-180 units completed.

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BCOR-2300 (3) Adding Value with Management

Focuses on how modern business firms compete in the global marketplace by adding value. Examines the value-chain of a firm and how firms use people, organizations, operations, and information systems to compete and win in world markets. Also covers contemporary issues such as total quality management, process reengineering, teams and team building, employee empowerment, and horizontal organizations. Prereq., BCOR 1010. Restricted to Business, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed. Formerly BCOR 2150. Prerequisites: Restricted to Business majors, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed.

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ACCT-2820 (3) Introduction to Personal Financial Planning

Introduces the concepts, tools, and applications of personal financial planning. Provides the students with tools and techniques for managing their personal finances. With these skills, students gain the ability to effectively deal with their ever-changing financial environment. Restricted to students with at least 26 hours completed.

Leeds School of Business | Accounting

ACCT-3220 (3) Corporate Financial Reporting 1

First of a two-course sequence intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Prereqs., BCOR 2000 and BCOR 2200. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-3225 (6) Corporate Financial Reporting

Intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Builds and extends detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-3230 (3) Corporate Financial Reporting 2

Second in a two-course sequence building and extending detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., ACCT 3220 and 52 hours completed.
Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-3320 (3) Cost Management

Provides cost analysis for the support of management decision making. Analyzes activities, cost behavior, role of accounting in planning, financial modeling, and managerial uses of cost data.
Prereq., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereqs., ACCT 3230. Restricted to Accounting or Finance majors with 52-180 units completed. Same as ACCT 5240. Prerequisites: Restricted to Accounting or Finance majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4250 (3) Financial Statement Analysis

Focuses on the use of U.S. and international accounting information by decision-makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity valuation and risk analysis. Prereq., ACCT 3220. Prerequisites: Restricted to Accounting, Finance or Accounting Concurrent Degree majors only with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereqs., ACCT 3220, 3230, and 3320. Same as ACCT 5330. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

Leeds School of Business | Accounting

ACCT-4430 (3) Personal Financial Planning

Extends the concepts, tools, and applications of personal finance and investments beyond ACCT 2820. Focuses on the development of a financial plan to achieve financial goals. Restricted to 52 hours completed.

Leeds School of Business | Accounting

ACCT-4440 (3) Income Taxation of Individuals

Examines concepts and structure of the United States income tax system. Focuses on concepts affecting all taxpayers, with emphasis on individual taxation. Prereq., ACCT 3220. Same as ACCT 5440. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4540 (3) Accounting Information Systems

Considers the interaction of accountants with information systems and the role of accounting information systems in business processes. Focuses on the tools used by accountants and provides an understanding of accounting as an information system. Prereq., ACCT 3220. Same as ACCT 5540. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Same as ACCT 5620. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed. Prereq., ACCT 3220. Same as ACCT 5800. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4820 (3) Topics in Business

Offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq., ACCT 3220. Same as ACCT 5820. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Restricted to juniors/seniors. Same as ACCT 5825.

Leeds School of Business | Accounting

ACCT-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as CESR 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business | Accounting

ACCT-4850 (3) Senior Seminar in Accounting

This seminar examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Prereqs., ACCT 3230, one 4000-level ACCT course. Restricted to 102 hours completed and to graduating senior ACCT majors. Formerly BCOR 4001. Prerequisites: Restricted to Accounting majors with 102-180 units completed.

Leeds School of Business | Accounting

ACCT-4900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors. Departmental form required.

Leeds School of Business | Accounting

ACCT-5240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5250 (3) Financial Statement Analysis

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereqs., ACCT 3220 and MBAC 6020. Same as ACCT 4250. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereq., ACCT 3320. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting,

Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5440 (3) Income Taxation of Individuals

Prereq., ACCT 3220. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4440. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5540 (3) Accounting Information Systems

Prereq., ACCT 3220 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4540. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4620. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5700 (3) International Accounting

Intensive focus on international financial statement analysis, cultural and economic differences that affect financial reporting in various countries. Examples include international financial reporting standards and accounting for foreign currency transactions. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4700. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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BCOR-2400 (3) Fundamentals of Marketing

Examines how activities in organizations provide value to the purchasers of its products and services. Includes gathering information about consumers and competitors through research and information systems, applying knowledge and technology to the design of products and services, communicating information to consumers and organizational units, and pricing and distributing products and services. Also includes issues in global marketing, ethics and diversity, relationship marketing, and integrating marketing with financial analyses. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101. Restricted to Bus., SPPR-PRO, IAFS, or ADVT majors, students w/WBE subplan and 26-180 units.

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BCOR-2500 (3) Introduction to Operations and Information Management

Takes a systems perspective in exploring the use of information, processes, and models used by businesses to produce goods and services and to effectively manage accounting, finance, human resources, strategy, supply chains/inventory, and other activities in a business. Focuses on making better business decisions faster through better business intelligence by using the right information, at the right time, provided to the right managers. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to Business majors with 13-180 units completed.

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ACCT-2820 (3) Introduction to Personal Financial Planning

Introduces the concepts, tools, and applications of personal financial planning. Provides the students with tools and techniques for managing their personal finances. With these skills, students gain the ability to effectively deal with their ever-changing financial environment. Restricted to students with at least 26 hours completed.

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BADM-2880 (3) Special Topics

Explores historical developments, contemporary issues, industry trends, and best practices pertinent to the business of sports. The course examines how sports enterprises are managed, and the impacts that such enterprises have on the economic and social fabric of communities. The course is designed to provide sufficient background for educated consumption of this literature and pursuit of further study if desired. Restricted to sophomores/juniors/seniors.

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BCOR-3000 (3) Business Law, Ethics, and Public Policy

Surveys major topics and case studies in business law, business ethics, and government policy. Business law topics include the American legal system, constitutional law, common law, contract principles, criminal and tort law, intellectual property, employment law, and personal and real property law. Ethics topics include the philosophy of law, legal versus moral issues, and professional responsibility. Public policy topics include the roles of business and government, types of government intervention, and the nature and theory of governmental policy formulation. Prerequisites: Restricted to Business majors, Spanish (SPPR) majors, students with a subplan of WBE, and 52-180 units completed.

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REAL-3000 (3) Principles of Real Estate

Introduction to real estate as an asset with associated property rights, an industry, profession, and investment. Covers a broad spectrum of real estate principles and terms including legal concepts, regulation and land use, industry issues, valuation, financing methods and sources, and investment analysis. Excellent elective for all students and provides the foundation for other real estate courses. Prereq., BCOR 1010, 1020, 2000, 2200, and 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Real Estate](#)

REAL-4000 (3) Real Estate Law

Building upon the legal concepts and issues introduced in REAL 3000, the course provides a deeper study of the laws and legal issues impacting and governing real property rights and interests including the acquisition, ownership, possession, use and transfer of real property. Incorporates both a lecture and case study approach fostering regular classroom discussions. Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Real Estate](#)

REAL-4100 (3) Real Estate Finance and Investment Analysis

Covers: 1) traditional and alternative financing of residential and commercial real estate; 2) pro forma cash flows and valuation of income generating properties; 3) real estate decisions of non-real estate corporations; and 4) mortgage backed securities and real estate investment trusts (REITs). Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Real Estate](#)

REAL-4810 (3) Real Estate Internship

As the capstone course for the Real Estate Certificate program, students complete approximately 150 internship hours with a real estate company over the semester (approximately 10 hours per week). The class will meet biweekly and focus on career options and opportunities in real estate. Contact the Real Estate Center for internship and registration information.

Leeds School of Business | Real Estate

REAL-4820 (3) Topics: Real Estate Development

Surveys the process of real estate development with a focus on the market analysis, urban dynamics and financing. Students will understand the complexities of the development process as it creates the communities in which we live and the many roles the student can play as a real estate professional. Prereq., REAL 3000. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Real Estate

REAL-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Real Estate. Restricted to juniors/seniors.

Leeds School of Business | Real Estate

REAL-4900 (1-3) Independent Study

Intended for exceptionally well-qualified business seniors who desire to study an advanced topic. Must be in Real Estate Certificate Program. Prereq., dean and instructor consent.

Leeds School of Business | Real Estate

REAL-6820 (3-6) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in real estate.

Leeds School of Business | Real Estate

REAL-6900 (1-3) Independent Study

Students must have consent of instructor under whose direction study is taken. Departmental form required.

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FNCE-3010 (3) Corporate Finance

Covers the theory and practices governing the management of capital in a business firm. Examines the determinants of capital requirements, methods of obtaining capital, problems of internal financial management, and methods of financial analysis. Prerequisites: Requires pre-requisite courses of BCOR 2000 and 2200. Restricted to Business Majors with 52-180 units completed.

[Leeds School of Business](#)
[Finance](#)

FNCE-4000 (3) Financial Institutions Management

Analyzes the structure, markets, and regulations of financial institutions. Studies problems and policies of internal management of funds, loan practices and procedures, investment behavior, deposit and capital adequacy, liquidity, and solvency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#)
[Finance](#)

FNCE-4030 (3) Investment and Portfolio Management

Develops modern portfolio theory and applies it to pricing both individual assets and portfolios of assets. Topics include Markowitz portfolio selection model, capital asset pricing model, arbitrage pricing theory, options, futures, bonds, portfolio performance measurement, and issues of market efficiency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#)
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FNCE-4040 (3) Derivative Securities

Develops the modern theory of contingent claims in a mathematical framework oriented toward applications. Examines how to use derivatives for risk management and to tailor portfolio payoffs.

Provides an in-depth analysis of the properties of options. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4050 (3) Capital Investment Analysis

Focuses on capital budgeting and investment issues. Emphasizes issues relating to cash flows, capital rationing, the investment versus financing decision, leasing, fluctuating rates of output, investment timing, capital budgeting under uncertainty, and investment decisions with additional information. Prereq., FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

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FNCE-4060 (1-6) Special Topics in Finance

Presents new subject matter in finance. The summer offering is the London Seminar in International Finance and Business. Prereqs. vary depending upon course offering. See advising office.

Leeds School of Business Finance

FNCE-4070 (3) Financial Markets and Institutions

Examines the economics of financial markets and the management of financial institutions, both domestic and international. Topics include an overview of U.S. and international financial markets, pricing and risk factors, interest rates, markets for securities and financial services, and markets for derivative financial instruments. Prereq., BCOR 2200. Restricted to students with 52 hours completed. Formerly FNCE 3020. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4820 (3) Topics in Finance

Offered irregularly to provide opportunity for investigation into new frontiers in finance. May be repeated up to 6 total credit hours. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Finance. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business Finance

FNCE-4830 (3) Seminar in Investment Banking

Introduces the student to a career in investment banking and provides specific modeling skills necessary and important during the first phase of such a career. Prereq., BCOR 2200. Recommended prereq., FNCE 3010. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4831 (3) Seminar in Investment Management

The purpose of this course is for students to understand the investment management profession. The course is designed to be a blend of theory and practice. Extends the basic principles of security analysis, asset pricing theory, portfolio construction, and portfolio performance evaluation. Students will apply these principles in determining, over the semester, how to manage the CU investment fund. Prereqs., BCOR 2000, 2300, and FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4832 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

Leeds School of Business Finance

FNCE-4850 (3) Business Senior Seminar in Finance

Develops analytical and decision making skills necessary to address real-world business finance situations. Topics include financial analysis and forecasting, capital budgeting, valuation, capital structure policy, international finance, and financial ethics. Uses a combination of lecture and cases; team and individual work. Prereqs., ACCT 3220, FNCE 3010, 4030, and 102 hours completed. Restricted to graduating senior FNCE majors. Formerly BCOR 4002. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Finance majors with 102 to 180 units completed.

Leeds School of Business Finance

FNCE-4900 (1-6) Independent Study

Intended only for exceptionally well qualified business seniors. Prereq., prior consent of dean and instructor under whose direction study is taken, and departmental form.

Leeds School of Business Finance

FNCE-6820 (1-3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

Leeds School of Business Finance

FNCE-6900 (1-6) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business Finance

FNCE-6950 (1-6) Master's Thesis

Leeds School of Business Finance

FNCE-7100 (3) Doctoral Seminar: Finance Theory

Develops the foundations for the study of modern financial economics by analyzing individuals' consumption and portfolio decisions in the context of risk and then traces the implications to market valuation of traded securities. Topics include the meaning and measurement of risk, portfolio theory, the Capital Asset Pricing Model, and arbitrage pricing arguments like those employed in Modigliani and Miller's capital structure theory and the Black-Scholes option pricing model. Prerequisites: Restricted to Business Administration graduate students only.

Leeds School of Business Finance

FNCE-7200 (3) Doctoral Seminar: Empirical Research Methods in Finance

Develops an understanding of current empirical methods used to examine research issues related to corporate finance and the capital markets.

Leeds School of Business Finance

FNCE-7330 (3) Doctoral Seminar: Corporate Finance, Theoretical, and Empirical Issues

Develops and examines theories and issues in corporate finance. Topics may include corporate control, capital structure, financial signaling, and payout policy.

Leeds School of Business Finance

FNCE-7550 (3) Doctoral Seminar: Special Topics in Finance

Closely examines areas of specific interest to academic research in finance. Subjects vary and may include game theory, stochastic processes in finance, continuous-time modeling, derivative security pricing, the microstructure of securities markets and financial institutions, innovation, and engineering.

Leeds School of Business Finance

FNCE-7800 (3) Doctoral Proseminar: Finance

Provides finance doctoral students with an orientation to the finance field; introduces contemporary research perspectives and priorities. Students discuss papers that illustrate academic researchers' use of various disciplinary theoretical and empirical tools to address finance problems.

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FNCE-7830 (1) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to apply their knowledge and skills to problems in finance. Gives special attention to development of thesis topics. Continuous enrollment required of all finance doctoral students while doing course work.

Leeds School of Business | Finance

FNCE-8820 (3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

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FNCE-8900 (1-3) Independent Study

Instructor consent and departmental form required.

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MGMT-3030 (3) Critical Leadership Skills

Provides an opportunity to learn about and practice the skills required of all managers. These skills include leadership, negotiation, conducting performance appraisals, delegation, effective communication, interviewing and making hiring decisions, and managing employees with problem behaviors. Objectives include developing self-awareness of strengths and weaknesses as a manager, gaining familiarity with theory-based skills, and developing proficiency in the use of these skills. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-3100 (3) Management of Service Operations

Examines concepts, tools and techniques used in the management of service operations. Focuses on how firms add value and compete with high quality and efficient services. Emphasizes the use of models for designing new services and improving the effectiveness of service processes. Studies the application of technology in the context of productivity, growth and the globalization of services. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3030, OPIM 3030. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-3200 (3) Business Intelligence

Focuses on acquiring accurate and timely knowledge to make effective operational, tactical and strategic decisions. This course focuses on how to create and use such knowledge. Topics include problem definition; critical factor isolation; data collection, storage, and querying; transformation of data into knowledge through appropriate analyses and aggregation; and the presentation of the knowledge to decision makers in meaningful ways. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3100, OPIM 3100. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-3210 (3) Business Application Programming

Uses computer programming to teach a complex problem solving skill. Its two main course objectives are: (1) learn to use a structured problem decomposition method, designed to help decompose a complex problem into manageable sub-problems. This method is best exemplified in programming but is applicable to any complex business problem. (2) understand the core concepts of programming--such as variable, object model, and control flow--that will help you not only appreciate the power of programming behind modern technologies but also better understand business process models. Formerly SYST 2010, OPIM 2010 and MGMT 2010.

Leeds School of Business | Management

MGMT-4010 (3) Redefining the Employee-Employer Relationship

Explores developments in such areas as employee relations law and procedures, employee and employer rights, worker involvement programs, environmental safety and health, and the effects of technology on emerging organization forms. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4020 (3) Hiring and Retaining Critical Human Resources

Allows students the opportunity to practice conducting job analyses and then use this information to develop employee selection and performance appraisal systems. Provides thorough coverage of employers' equal employment opportunity and affirmative action obligations, as well as various approaches to gender, cultural, and ethnic diversity. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4030 (3) Managing Employee Reward Systems

Examines theories of work motivation and relates them to the strategic use of compensation and other reward systems. Topics include procedures for managing base pay; linking pay incentives to productivity at the individual, group, and organizational levels; developing cost-effective programs of employee benefits; and the use of nonfinancial reward systems. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4040 (3) Individual, Team, and Organizational Development

Explores how to determine where an organization needs to focus its development efforts, how to develop and deliver an effective training program, and how to evaluate the impact of development programs on organizational effectiveness. Explores individual, team, and organization-wide development, including such topics as skills training, team building, and managing change. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4090 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to

success. Prereqs., BCOR 2200 or BCOR 2300. Restricted to business majors with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4110 (3) Supply Chain Management

Explores the key issues related to the design and management of supply chains. Covers the efficient integration of suppliers, production facilities, warehouses, and stores so that the right products in the right quantity reach customers at the right time. Focuses on the minimization of the total supply chain cost subject to service requirements imposed by a variety of industries. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4050, OPIM 4050. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to Business, AEBU, ARBU, CEBU, CVBU, CSBU, ECBU, MEBU, EVBU, ADBU, BNBU, NEBU or MUBU Majors with 52-180 units completed.

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MGMT-4140 (3) Project Management

Introduces multidisciplinary project management concepts, skills, and tools, including the relationship between project definition, organization, planning, scheduling, resource and risk management, control, costing, and performance. Presents both qualitative and quantitative tools for better project management. Prereq., BCOR 2500 and 52 hours completed. Formerly OPIM 4080 and MGMT 4085. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4150 (3) International Operations Management

Compares systems of production/operations management in the United States with those in Japan, Europe, and Asia. Contrasts various regional and national approaches to business, quality management, labor practices, management styles, international competitiveness, productivity, distribution systems, trade practices, and strategies for penetrating foreign markets. Examines different sociocultural environments, government-business relationships, banking industries, operations strategies, and the potential for transferring industrial management practices and techniques

between countries. Prereq., BCOR 2500. Restricted to students with 52 hours completed. Formerly OPIM 4065 and MGMT 4070. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4210 (3) Systems Thinking

Analysis of systems thinking and understanding the complex interactions of collections of people, processes, organizations, and technologies. Students learn to be creative and critical thinkers who can conceptually model the very complex systems we encounter in our world today. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3000, OPIM 3000. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4220 (3) Business Technologies

Covers the use and configuration of ERP (enterprise resource planning) technologies in businesses. Emphasizes the understanding of the usage of technology in facilitating business processes within firms. Covers many modules/functional areas, including sales, marketing, distribution, manufacturing, etc. Students learn the importance of technology to organizations through hands-on use of multiple ERP software, focusing on both business processes as well as technology. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3101, OPIM 3101. Prerequisites: Restricted to students with 52-180 units completed.

Leeds School of Business | Management

MGMT-4230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4820 (3) Topics in Business

Experimental course offered irregularly for purpose presenting new subject matter in organization management. Same as MGMT 5820.

Leeds School of Business | Management

MGMT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Management. Restricted to Business (BUSN) majors with 52-180 units completed. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4850 (3) Senior Seminar in Management

Covers the issues and challenges of running a firm in a competitive environment. It integrates and builds upon coursework in other functional areas. Discusses principles, frameworks, and techniques that helps understand how to analyze the competitive environment; firm sources of competitive advantage; competitive dynamics; and, specific types of strategies to promote firm performance. Focuses on specific company examples. Prereqs., BCOR 2300, 2500, MGMT 3030. Restricted to students with 102-180 units completed. Formerly MGMT 4000.

Prerequisites: Restricted to students with 102-180 units completed.

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MGMT-4900 (1-3) Independent Study

Intended only for exceptionally well qualified business seniors. Departmental form required. Prereq., dean and instructor consent.

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MGMT-4910 (1-3) Academic Internship in Management

Offers students the opportunity to gain professional work experience in a management position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes 100 hours per credit and a course paper. Instructor consent is required. Pass/Fail grading only. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4910, OPIM 4910. Prerequisites: Restricted to students with 52-180 units completed.

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MGMT-5120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course.

Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Graduate Students only.

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MGMT-5230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Graduate Students only.

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MGMT-5820 (3) Topics in Business

Same as MGMT 4820.

Leeds School of Business | Management

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REAL-3000 (3) Principles of Real Estate

Introduction to real estate as an asset with associated property rights, an industry, profession, and investment. Covers a broad spectrum of real estate principles and terms including legal concepts, regulation and land use, industry issues, valuation, financing methods and sources, and investment analysis. Excellent elective for all students and provides the foundation for other real estate courses. Prereq., BCOR 1010, 1020, 2000, 2200, and 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Real Estate](#)

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BCOR-3010 (3) Business Applications of Social Responsibility

Explores alternative views of the role of business in our global society through detailed case analyses, beginning with the free market view. This is a cross-functional area course that helps students to isolate and articulate their personal values that will shape business conduct. Emphasizes individual and organizational responsibility for business behavior in the broader social context.

Prerequisites: Requires pre-requisite courses of BCOR 2000, 2200, 2300, 2400 & 2500. Restricted to Business majors with 60-180 units completed.

[Leeds School of Business](#) [Business Core](#)

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FNCE-3010 (3) Corporate Finance

Covers the theory and practices governing the management of capital in a business firm. Examines the determinants of capital requirements, methods of obtaining capital, problems of internal financial management, and methods of financial analysis. Prerequisites: Requires pre-requisite courses of BCOR 2000 and 2200. Restricted to Business Majors with 52-180 units completed.

[Leeds School of Business](#) [Finance](#)

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MGMT-3030 (3) Critical Leadership Skills

Provides an opportunity to learn about and practice the skills required of all managers. These skills include leadership, negotiation, conducting performance appraisals, delegation, effective communication, interviewing and making hiring decisions, and managing employees with problem behaviors. Objectives include developing self-awareness of strengths and weaknesses as a manager, gaining familiarity with theory-based skills, and developing proficiency in the use of these skills. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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BADM-3100 (1) Professional Development

Designed to provide opportunities to understand and develop professional competencies for successful careers in business. Designed to increase knowledge of job search strategies and formulate a career management plan for transitioning to the workplace. Topics such as resumes, cover letters, personal branding, job search strategies, internships, career choices, networking and social media will be covered. A Self-Marketing Plan will be developed to help focus on long-term career goals. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Leeds School of Business (BUSN) majors only.

[Leeds School of Business](#) [Business Administration](#)

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ESBM-3100 (3) Introduction to Entrepreneurship

Introduces non-business students to the multiple facets of entrepreneurship and the entrepreneurial process. Entrepreneurship is a process of fundamental transformation: from innovative idea to enterprise and from enterprise to value, entrepreneurship is more than a business practice. Innovation is central to this process and students will be challenged to develop creative solutions to a problem or need. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-3200 (3) Principles of Business for Entrepreneurs

Provides non-business students with a basic understanding of the business principles required to start and grow an entrepreneurial venture. It is intended for individuals who have not taken a marketing, accounting or finance course. This course will focus on two aspects of business that are critical to the success of any new venture: marketing and financial management. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-3700 (3) Entrepreneurial Environments

Introduces entrepreneurship. Addresses opportunity recognition, target markets, industry analysis, business model identification, sources of funding, managing rapid growth, and writing feasibility studies. Examines alternative forms of entrepreneurship such as franchising, corporate entrepreneurship, family business, and social entrepreneurship. Prereqs., BCOR 2000, 2050, 2100, 2150, or BCOR 2000, 2200, 2300, 2400. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4100 (3) Writing a Venture Plan

Requires non-business students to engage in a rigorous, thoughtful and challenging process essential to planning a new venture. Using their own concept, students will develop a strategy to start and grow a venture. Communicating the plan is an essential element of this course and students will learn when and how to write a plan and make effective presentations. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

ESBM-4570 (3) Entrepreneurial Finance.

Focuses on the financial concepts, issues, methods, and industry practices relevant to entrepreneurial decision makers. Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Provides an understanding of the segments of the capital markets specializing in start-ups and growth financing. Prereq., BCOR 2200. Restricted to Business majors with 52-180 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

ESBM-4820 (3) Special Topics in Entrepreneurship

Leeds School of Business | Entrepreneurship and Small Business Management

ESBM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Entrepreneurship and Small Business Management. Restricted to juniors/seniors.

Leeds School of Business | Entrepreneurship and Small Business Management

ESBM-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

ESBM-4830 (3) Entrepreneurship Business Planning and Preparation

Work as part of a small team, with the focus on the process of creating a plan from the business concept and model through all of the elements of a professionally written business plan document. Prereqs., ESBM 3700 and 4570. Same as EMEN 4825. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

ESBM-4900 (1-3) Projects in Entrepreneurial Companies

Complete projects in preselected entrepreneurial companies. Prereq., instructor consent.

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Entrepreneurship and Small Business Management

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MKTG-3150 (3) Sales Management

Explores the selling task and the essentials of managing the sales force. Includes recruiting, selecting and hiring, training, compensating, supervising, and controlling. Covers sales organization, sales planning, sales forecasting, assigning territories, quotas, and sales analysis. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Formerly MKTG 4150. Prerequisites: Restricted to Business or Advertising majors and 52-180 hours completed.

[Leeds School of Business](#) [Marketing](#)

MKTG-3250 (3) Buyer Behavior

Covers both consumer buying behavior and organizational buying behavior. Consumer behavior topics include needs and motives, personality, perception, learning, attitudes, cultural influence, and contributions of behavioral sciences that lead to understanding consumer decision making and behavior. Explores differences between business and consumer markets, business buying motives, the organizational buying center and roles, and the organizational buying process. Required for marketing majors. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2050 or 2400. Restricted to Business or ADVT Majors and 52-180 hours completed.

[Leeds School of Business](#) [Marketing](#)

MKTG-3350 (3) Marketing Research

Explores fundamental techniques of data collection and analysis used to solve marketing problems. Specific topics include problem definition, planning an investigation, developing questionnaires, sampling, tabulation, interpreting results, and preparing and presenting a final report. Required for marketing majors. Prereqs., BCOR 1020 and 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 1020 and 2050 or 2400. Restricted to Business Majors with 52-180 units completed.

[Leeds School of Business](#) [Marketing](#)

MKTG-3825 (3) Experimental Seminar

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing. Prereq., BCOR 2400. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Marketing

MKTG-4250 (3) Product Strategy

Covers major topics in managing long-term customer relationships that derive from products. Focuses on concepts, analyses, and strategies for existing and new products. Topics include concept development and testing, conjoint analysis, product positioning, brand image measurements and brand management, and product issues in public policy and ethics. Methods of instruction include lectures, case discussions, student group papers and projects, and examinations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

Leeds School of Business | Marketing

MKTG-4300 (3) Pricing and Channels of Distribution

Offered regularly to examine pricing and channel management, the two key components of companys' marketing strategies. Help students to understand the common types of pricing and channel strategies, the rationales behind these strategies. Train students to think analytically in order to apply these strategies. Prereqs., MKTG 3250 and 3350. Restricted to BUSN students with minimum 52 units completed. Prerequisites: Requires pre-requisite courses MKTG 3250 and 3350. Restricted to Business majors with minimum 52 units completed.

Leeds School of Business | Marketing

MKTG-4350 (3) Services Marketing Strategy

Designed for those students interested in working in the service industries. Addresses the distinct needs and problems of service organizations in the area of marketing and service quality. Service organizations (i.e., banks, transportation companies, hotels, hospitals, educational institutions, professional services, etc.) require a distinctive approach to marketing strategy--both in its development and execution. Builds and expands on marketing ideas and how to make them work in service settings. Prereqs., MKTG 3250 and 3350.

Leeds School of Business | Marketing

MKTG-4500 (3) Advertising Management

Prereqs., MKTG 3250 and 3350. Restricted to students with 52 hours completed.

Leeds School of Business | Marketing

MKTG-4550 (3) Advertising and Promotion Management

Analyzes advertising and promotion principles and practices from the marketing manager's point of view. Considers the decision to advertise, market analysis as a planning phase of the advertising program, media selection, public relations, sales promotion, promotion budgets, campaigns, evaluation of results, and agency relations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

Leeds School of Business | Marketing

Leeds School of Business | Marketing

MKTG-4650 (3) Institutional Relationships and Strategy

Focuses on the management of a firm's relationships with other businesses. Addresses business-to-business marketing strategies, relationships with channel members, and strategic alliances/partnerships. Topics include relationship structures, power, conflict, negotiation, industry analysis, selection of business partners, and managing for long-term stability. Prereqs., MKTG 3250 and 3350.

Leeds School of Business | Marketing

MKTG-4810 (3) Honors Seminar

Social responsibilities of the business executive, business ethics, business-government relations, and business in literature. Open to seniors who have completed at least 30 semester hours of business courses with not less than a 3.30 GPA and have instructor consent. Prereq., BCOR 2400.

Leeds School of Business | Marketing

MKTG-4820 (3) Special Topics in Marketing

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing.

Leeds School of Business | Marketing

MKTG-4825 (1-3) Pricing and Channels of Distribution

Offered irregularly to provide opportunity for investigation of new frontiers in Marketing. Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior).

Leeds School of Business | Marketing

MKTG-4850 (3) Senior Seminar in Marketing

Capstone marketing course that integrates and further develops what students have learned in other courses. Provides students with the insight and skills necessary to formulate and implement sound socially responsible marketing strategies, product line management strategies, promotional and product/service communication strategies, pricing, and distribution strategies. Prereqs., MKTG 3250, 3350, two additional 4000-level MKTG courses from either MKTG 4250, 4300 or 4550 with the third serving as a co-requisite, and 102 hours completed. Restricted to graduating MKTG majors. Formerly BCOR 4004. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350 and either MKTG 4250 or 4300 or 4550. Restricted to MKTG Majors with 102 to 180 units completed.

Leeds School of Business | Marketing

MKTG-4900 (1-6) Independent Study

Intended only for exceptionally well qualified business seniors. Instructor and division chair consent required.

Leeds School of Business | Marketing

MKTG-6900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Marketing

MKTG-6940 (1) Master's Candidate

Departmental form required.

Leeds School of Business | Marketing

MKTG-6950 (1-6) Master's Thesis

Leeds School of Business | Marketing

MKTG-7000 (3) Seminar in Consumer Behavior

Studies the nature and determinants of consumer buying behavior. In-depth investigation of contributions of behavioral sciences (especially psychology, sociology, and cultural anthropology) toward understanding consumer behavior. Influence of demographic factors, motivation, personality, culture, and purchasing behavior. Prereq., instructor consent.

Leeds School of Business | Marketing

MKTG-7200 (3) Experimental Research Methods in Marketing

Provides a detailed exposure to the design of laboratory/field experiments and quasi-experiments for marketing and consumer research. Emphasizes the choice of design options, data collection methods, statistical analysis, and substantive interpretation of experimental results.

Leeds School of Business | Marketing

MKTG-7300 (3) Multivariable Methods in Marketing Research

Includes Manova designs, causal models, cluster analysis, discriminant function analysis, factor analysis, and latent structure analysis. Emphasizes computer applications. Prereqs., graduate courses in regression and Manova.

Leeds School of Business | Marketing

MKTG-7305 (3) Qualitative and Survey Research Methods in Business

Detailed exposure to qualitative and survey research methods in business. Qualitative methods include participant observation, depth interviews, focus-group interviews and ethnography. Survey methods include measurement theory, survey design and sampling, survey implementation, data analysis, and substantive interpretation.

Leeds School of Business | Marketing

MKTG-7310 (3) Design and Analysis of Experiments in Business

Detailed exposure to experimental research methods for business applications. Emphasizes the choice of design options, data collection methods, statistical analysis, and substantive interpretation of experimental results.

Leeds School of Business | Marketing

MKTG-7400 (2) Doctoral Seminar: Channels of Distribution

Study of marketing literature in channels of distribution. Includes topics of channel structure, channel power, channel conflict and leadership, physical distribution systems, and regulation.

Leeds School of Business | Marketing

MKTG-7500 (2) Doctoral Seminar: Promotion

Study of marketing literature dealing with advertising, selling, sales promotion, and sales management. Includes topics of advertising decision models, advertising effects, sales-force performance models, and promotion management.

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ESBM-3100 (3) Introduction to Entrepreneurship

Introduces non-business students to the multiple facets of entrepreneurship and the entrepreneurial process. Entrepreneurship is a process of fundamental transformation: from innovative idea to enterprise and from enterprise to valuetus, entrepreneurship is more than a business practice. Innovation is central to this process and students will be challenged to develop creative solutions to a problem or need. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

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MGMT-3100 (3) Management of Service Operations

Examines concepts, tools and techniques used in the management of service operations. Focuses on how firms add value and compete with high quality and efficient services. Emphasizes the use of models for designing new services and improving the effectiveness of service processes. Studies the application of technology in the context of productivity, growth and the globalization of services. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3030, OPIM 3030. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MKTG-3150 (3) Sales Management

Explores the selling task and the essentials of managing the sales force. Includes recruiting, selecting and hiring, training, compensating, supervising, and controlling. Covers sales organization, sales planning, sales forecasting, assigning territories, quotas, and sales analysis. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Formerly MKTG 4150. Prerequisites: Restricted to Business or Advertising majors and 52-180 hours completed.

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ESBM-3200 (3) Principles of Business for Entrepreneurs

Provides non-business students with a basic understanding of the business principles required to start and grow an entrepreneurial venture. It is intended for individuals who have not taken a marketing, accounting or finance course. This course will focus on two aspects of business that are critical to the success of any new venture: marketing and financial management. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

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MGMT-3200 (3) Business Intelligence

Focuses on acquiring accurate and timely knowledge to make effective operational, tactical and strategic decisions. This course focuses on how to create and use such knowledge. Topics include problem definition; critical factor isolation; data collection, storage, and querying; transformation of data into knowledge through appropriate analyses and aggregation; and the presentation of the knowledge to decision makers in meaningful ways. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3100, OPIM 3100.

Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-3210 (3) Business Application Programming

Uses computer programming to teach a complex problem solving skill. Its two main course objectives are: (1) learn to use a structured problem decomposition method, designed to help decompose a complex problem into manageable sub-problems. This method is best exemplified in programming but is applicable to any complex business problem. (2) understand the core concepts of programming--such as variable, object model, and control flow--that will help you not only appreciate the power of programming behind modern technologies but also better understand business process models. Formerly SYST 2010, OPIM 2010 and MGMT 2010.

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ACCT-3220 (3) Corporate Financial Reporting 1

First of a two-course sequence intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Prereqs., BCOR 2000 and BCOR 2200. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Accounting](#)

ACCT-3225 (6) Corporate Financial Reporting

Intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Builds and extends detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Accounting](#)

ACCT-3230 (3) Corporate Financial Reporting 2

Second in a two-course sequence building and extending detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., ACCT 3220 and 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Accounting](#)

MKTG-3250 (3) Buyer Behavior

Covers both consumer buying behavior and organizational buying behavior. Consumer behavior topics include needs and motives, personality, perception, learning, attitudes, cultural influence,

and contributions of behavioral sciences that lead to understanding consumer decision making and behavior. Explores differences between business and consumer markets, business buying motives, the organizational buying center and roles, and the organizational buying process. Required for marketing majors. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2050 or 2400. Restricted to Business or ADVT Majors and 52-180 hours completed.

Leeds School of Business | Marketing

INBU-3300 (3) International Business and Management

This survey course takes a broad and comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international management, including trade practices, country penetration strategies, international finance and accounting, marketing across cultures, global service and manufacturing operations, cultural and legal differences, ethical and sustainability issues, and global competitive strategy. Prereq., 52 hours completed. Formerly INBU 4300. Prerequisites: Restricted to Business or International Affairs majors with 52-180 units completed.

Leeds School of Business | International Business

ACCT-3320 (3) Cost Management

Provides cost analysis for the support of management decision making. Analyzes activities, cost behavior, role of accounting in planning, financial modeling, and managerial uses of cost data. Prereq., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

MKTG-3350 (3) Marketing Research

Explores fundamental techniques of data collection and analysis used to solve marketing problems. Specific topics include problem definition, planning an investigation, developing questionnaires, sampling, tabulation, interpreting results, and preparing and presenting a final report. Required for marketing majors. Prereqs., BCOR 1020 and 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 1020 and 2050 or 2400. Restricted to Business Majors with 52-180 units completed.

Leeds School of Business | Marketing

INBU-3450 (3) International Marketing

Describes the economic, geographic, political, and social forces that have shaped and continue to define global markets. Examines topics critical to success in international markets, including assessment of a firm's international capabilities, techniques for gauging the potential of international markets, international segmentation approaches, and alternative arrangements for entering foreign markets. Compares and contrasts product, price, distribution, logistics, promotion, and research decisions made in global versus domestic markets. Introduces students to financial arrangements characteristic of international marketing, including exchange rates and controls, balance-of-payment principles, import licensing agreements and tariffs. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed. Prereq., BCOR 2400. Same as INBU 5100. Formerly MKTG 3450. Prerequisites: Requires pre-requisite class of BCOR 2400. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed.

Leeds School of Business | International Business

ESBM-3700 (3) Entrepreneurial Environments

Introduces entrepreneurship. Addresses opportunity recognition, target markets, industry analysis, business model identification, sources of funding, managing rapid growth, and writing feasibility studies. Examines alternative forms of entrepreneurship such as franchising, corporate entrepreneurship, family business, and social entrepreneurship. Prereqs., BCOR 2000, 2050, 2100,

2150, or BCOR 2000, 2200, 2300, 2400. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Entrepreneurship and Small Business Management

MKTG-3825 (3) Experimental Seminar

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing. Prereq., BCOR 2400. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Marketing

BADM-3880 (3) Special Topics

Introduces students to the many facets of the marketing of sport and marketing through sport. Theoretical and practical applications of marketing sport are examined. The course will provide students with an understanding of current marketing concepts, and best business practices, related to sports enterprises and a foundation for pursuit of further study and work in sports and event marketing. Restricted to juniors/seniors.

Leeds School of Business Business Administration

BADM-3930 (1-6) Internship

Student training and participation in government or industry environment under faculty supervision. Prereqs., BCOR 1000, 2000, 2010, 2050, GPA 2.50, junior standing and instructor consent.

Leeds School of Business Business Administration

CESR-4000 (1) Leadership Challenges I: Exercises in Moral Courage

Part one of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Recommended prereq., BCOR 3010. By instructor recommendation only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business Curriculum Emphasis on Social Responsibility

FNCE-4000 (3) Financial Institutions Management

Analyzes the structure, markets, and regulations of financial institutions. Studies problems and policies of internal management of funds, loan practices and procedures, investment behavior, deposit and capital adequacy, liquidity, and solvency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

REAL-4000 (3) Real Estate Law

Building upon the legal concepts and issues introduced in REAL 3000, the course provides a deeper study of the laws and legal issues impacting and governing real property rights and interests including the acquisition, ownership, possession, use and transfer of real property. Incorporates both a lecture and case study approach fostering regular classroom discussions. Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Real Estate

CESR-4001 (2) Leadership Challenges II: Exercises in Moral Courage

Continuation of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Prereq., CESR 4000. Recommended prereq., BCOR 3010. By instructor recommendation only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4005 (3) Business Solutions for the Developing World: Learning through Service

Students work in teams to provide business advice to social entrepreneurs, social ventures and Peace Corps volunteers who are working to solve global social and environmental problems. The primary objective of the class is to provide student with practical knowledge and experience in developing proactive, sustainable business strategies to meet the needs of the poor and to encourage students to think critically about how business can make an impact on global poverty. Prereq. or coreq., BCOR 3010. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4010 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

MGMT-4010 (3) Redefining the Employee-Employer Relationship

Explores developments in such areas as employee relations law and procedures, employee and employer rights, worker involvement programs, environmental safety and health, and the effects of technology on emerging organization forms. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4020 (3) Hiring and Retaining Critical Human Resources

Allows students the opportunity to practice conducting job analyses and then use this information to develop employee selection and performance appraisal systems. Provides thorough coverage of employers' equal employment opportunity and affirmative action obligations, as well as various approaches to gender, cultural, and ethnic diversity. Prereq., BCOR 2300. Restricted to

students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

FNCE-4030 (3) Investment and Portfolio Management

Develops modern portfolio theory and applies it to pricing both individual assets and portfolios of assets. Topics include Markowitz portfolio selection model, capital asset pricing model, arbitrage pricing theory, options, futures, bonds, portfolio performance measurement, and issues of market efficiency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Finance

MGMT-4030 (3) Managing Employee Reward Systems

Examines theories of work motivation and relates them to the strategic use of compensation and other reward systems. Topics include procedures for managing base pay; linking pay incentives to productivity at the individual, group, and organizational levels; developing cost-effective programs of employee benefits; and the use of nonfinancial reward systems. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

FNCE-4040 (3) Derivative Securities

Develops the modern theory of contingent claims in a mathematical framework oriented toward applications. Examines how to use derivatives for risk management and to tailor portfolio payoffs. Provides an in-depth analysis of the properties of options. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Finance

MGMT-4040 (3) Individual, Team, and Organizational Development

Explores how to determine where an organization needs to focus its development efforts, how to develop and deliver an effective training program, and how to evaluate the impact of development programs on organizational effectiveness. Explores individual, team, and organization-wide development, including such topics as skills training, team building, and managing change. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

FNCE-4050 (3) Capital Investment Analysis

Focuses on capital budgeting and investment issues. Emphasizes issues relating to cash flows, capital rationing, the investment versus financing decision, leasing, fluctuating rates of output, investment timing, capital budgeting under uncertainty, and investment decisions with additional information. Prereq., FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Finance

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[FNCE-4060 \(1-6\) Special Topics in Finance](#)

Presents new subject matter in finance. The summer offering is the London Seminar in International Finance and Business. Prereqs. vary depending upon course offering. See advising office.

[Leeds School of Business](#) [Finance](#)

[FNCE-4070 \(3\) Financial Markets and Institutions](#)

Examines the economics of financial markets and the management of financial institutions, both domestic and international. Topics include an overview of U.S. and international financial markets, pricing and risk factors, interest rates, markets for securities and financial services, and markets for derivative financial instruments. Prereq., BCOR 2200. Restricted to students with 52 hours completed. Formerly FNCE 3020. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Finance](#)

[MGMT-4090 \(3\) IT and Business Strategy](#)

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereqs., BCOR 2200 or BCOR 2300. Restricted to business majors with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Management](#)

[ESBM-4100 \(3\) Writing a Venture Plan](#)

Requires non-business students to engage in a rigorous, thoughtful and challenging process essential to planning a new venture. Using their own concept, students will develop a strategy to start

and grow a venture. Communicating the plan is an essential element of this course and students will learn when and how to write a plan and make effective presentations. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

REAL-4100 (3) Real Estate Finance and Investment Analysis

Covers: 1) traditional and alternative financing of residential and commercial real estate; 2) pro forma cash flows and valuation of income generating properties; 3) real estate decisions of non-real estate corporations; and 4) mortgage backed securities and real estate investment trusts (REITs). Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Real Estate

MGMT-4110 (3) Supply Chain Management

Explores the key issues related to the design and management of supply chains. Covers the efficient integration of suppliers, production facilities, warehouses, and stores so that the right products in the right quantity reach customers at the right time. Focuses on the minimization of the total supply chain cost subject to service requirements imposed by a variety of industries. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4050, OPIM 4050. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

BSLW-4120 (3) Advanced Business Law

Continuation of BCORr 3000. Covers sales and lease transactions, negotiable instruments, creditor rights and bankruptcy, secured transactions, agency, business organizations, protection of property, and other advanced topics in legal and regulatory environments. BCOR 3000 and BSLW 4120/5120 together cover the business law topics tested on the CPA exam. Prereqs., BCOR 3000 and junior standing. Same as BSLW 5120. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Business Law

MGMT-4120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

CESR-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to students

with 60-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

MGMT-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to Business, AEBU, ARBU, CEBU, CVBU, CSBU, ECBU, MEBU, EVBU, ADBU, BNBU, NEBU or MUBU Majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4140 (3) Project Management

Introduces multidisciplinary project management concepts, skills, and tools, including the relationship between project definition, organization, planning, scheduling, resource and risk management, control, costing, and performance. Presents both qualitative and quantitative tools for better project management. Prereq., BCOR 2500 and 52 hours completed. Formerly OPIM 4080 and MGMT 4085. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4150 (3) International Operations Management

Compares systems of production/operations management in the United States with those in Japan, Europe, and Asia. Contrasts various regional and national approaches to business, quality management, labor practices, management styles, international competitiveness, productivity, distribution systems, trade practices, and strategies for penetrating foreign markets. Examines different sociocultural environments, government-business relationships, banking industries, operations strategies, and the potential for transferring industrial management practices and techniques between countries. Prereq., BCOR 2500. Restricted to students with 52 hours completed. Formerly OPIM 4065 and MGMT 4070. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

INBU-4200 (3) International Financial Management

Examines the financial policies and problems associated with firms doing business internationally. Topics include the foreign exchange environment, country risk, managing foreign exchange exposure, international working capital management, international capital budgeting, and international financial markets. Prereqs., BCOR 1020, 2000, and 2200. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2200. Restricted to Business or IAFS Majors with 52-180 units completed.

Leeds School of Business | International Business

MGMT-4210 (3) Systems Thinking

Analysis of systems thinking and understanding the complex interactions of collections of people, processes, organizations, and technologies. Students learn to be creative and critical thinkers who can conceptually model the very complex systems we encounter in our world today. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3000, OPIM 3000. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4220 (3) Business Technologies

Covers the use and configuration of ERP (enterprise resource planning) technologies in businesses. Emphasizes the understanding of the usage of technology in facilitating business processes within firms. Covers many modules/functional areas, including sales, marketing, distribution, manufacturing, etc. Students learn the importance of technology to organizations through hands-on use of multiple ERP software, focusing on both business processes as well as technology. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3101, OPIM 3101. Prerequisites: Restricted to students with 52-180 units completed.

Leeds School of Business | Management

MGMT-4230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business | Management

ACCT-4240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereqs., ACCT 3230. Restricted to Accounting or Finance majors with 52-180 units completed. Same as ACCT 5240. Prerequisites: Restricted to Accounting or Finance majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4250 (3) Financial Statement Analysis

Focuses on the use of U.S. and international accounting information by decision-makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity valuation and risk analysis. Prereq., ACCT 3220. Prerequisites: Restricted to Accounting, Finance or Accounting Concurrent Degree majors only with 52-180 units completed.

Leeds School of Business | Accounting

MKTG-4250 (3) Product Strategy

Covers major topics in managing long-term customer relationships that derive from products. Focuses on concepts, analyses, and strategies for existing and new products. Topics include concept development and testing, conjoint analysis, product positioning, brand image measurements and brand management, and product issues in public policy and ethics. Methods of instruction include lectures, case discussions, student group papers and projects, and examinations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

Leeds School of Business | Marketing

MKTG-4300 (3) Pricing and Channels of Distribution

Offered regularly to examine pricing and channel management, the two key components of companies' marketing strategies. Help students to understand the common types of pricing and channel strategies, the rationales behind these strategies. Train students to think analytically in order to apply these strategies. Prereqs., MKTG 3250 and 3350. Restricted to BUSN students with minimum 52 units completed. Prerequisites: Requires pre-requisite courses MKTG 3250 and 3350. Restricted to Business majors with minimum 52 units completed.

Leeds School of Business | Marketing

ACCT-4330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereqs., ACCT 3220, 3230, and 3320. Same as ACCT 5330. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

Leeds School of Business | Accounting

MKTG-4350 (3) Services Marketing Strategy

Designed for those students interested in working in the service industries. Addresses the distinct needs and problems of service organizations in the area of marketing and service quality. Service organizations (i.e., banks, transportation companies, hotels, hospitals, educational institutions, professional services, etc.) require a distinctive approach to marketing strategy---both in its development and execution. Builds and expands on marketing ideas and how to make them work in service settings. Prereqs., MKTG 3250 and 3350.

Leeds School of Business | Marketing

ACCT-4430 (3) Personal Financial Planning

Extends the concepts, tools, and applications of personal finance and investments beyond ACCT 2820. Focuses on the development of a financial plan to achieve financial goals. Restricted to 52 hours completed.

Leeds School of Business | Accounting

ACCT-4440 (3) Income Taxation of Individuals

Examines concepts and structure of the United States income tax system. Focuses on concepts affecting all taxpayers, with emphasis on individual taxation. Prereq., ACCT 3220. Same as ACCT 5440. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

MKTG-4500 (3) Advertising Management

Prereqs., MKTG 3250 and 3350. Restricted to students with 52 hours completed.

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ACCT-4540 (3) Accounting Information Systems

Considers the interaction of accountants with information systems and the role of accounting information systems in business processes. Focuses on the tools used by accountants and provides an understanding of accounting as an information system. Prereq., ACCT 3220. Same as ACCT 5540. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

[Leeds School of Business](#) [Accounting](#)

MKTG-4550 (3) Advertising and Promotion Management

Analyzes advertising and promotion principles and practices from the marketing manager's point of view. Considers the decision to advertise, market analysis as a planning phase of the advertising program, media selection, public relations, sales promotion, promotion budgets, campaigns, evaluation of results, and agency relations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

[Leeds School of Business](#) [Marketing](#)

ESBM-4570 (3) Entrepreneurial Finance.

Focuses on the financial concepts, issues, methods, and industry practices relevant to entrepreneurial decision makers. Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Provides an understanding of the segments of the capital markets specializing in start-ups and growth financing. Prereq., BCOR 2200. Restricted to Business majors with 52-180 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Entrepreneurship and Small Business Management](#)

ACCT-4620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Same as ACCT 5620. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

MKTG-4650 (3) Institutional Relationships and Strategy

Focuses on the management of a firm's relationships with other businesses. Addresses business-to-business marketing strategies, relationships with channel members, and strategic alliances/partnerships. Topics include relationship structures, power, conflict, negotiation, industry analysis, selection of business partners, and managing for long-term stability. Prereqs., MKTG 3250 and 3350.

Leeds School of Business | Marketing

ACCT-4800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed. Prereq., ACCT 3220. Same as ACCT 5800. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

MKTG-4810 (3) Honors Seminar

Social responsibilities of the business executive, business ethics, business-government relations, and business in literature. Open to seniors who have completed at least 30 semester hours of business courses with not less than a 3.30 GPA and have instructor consent. Prereq., BCOR 2400.

Leeds School of Business | Marketing

REAL-4810 (3) Real Estate Internship

As the capstone course for the Real Estate Certificate program, students complete approximately 150 internship hours with a real estate company over the semester (approximately 10 hours per week). The class will meet biweekly and focus on career options and opportunities in real estate. Contact the Real Estate Center for internship and registration information.

Leeds School of Business | Real Estate

ACCT-4820 (3) Topics in Business

Offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq., ACCT 3220. Same as ACCT 5820. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

Leeds School of Business | Accounting

BADM-4820 (1-6) Special Topics

Variable topics in business drawing from a variety of business disciplines. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Business Administration

BSLW-4820 (1-3) Topics in Business Law

Experimental course offered irregularly for purpose of presenting new subject matter in business law.

Leeds School of Business | Business Law

ESBM-4820 (3) Special Topics in Entrepreneurship

Leeds School of Business | Entrepreneurship and Small Business Management

FNCE-4820 (3) Topics in Finance

Offered irregularly to provide opportunity for investigation into new frontiers in finance. May be repeated up to 6 total credit hours. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Finance

MGMT-4820 (3) Topics in Business

Experimental course offered irregularly for purpose presenting new subject matter in organization management. Same as MGMT 5820.

Leeds School of Business | Management

MKTG-4820 (3) Special Topics in Marketing

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing.

Leeds School of Business | Marketing

REAL-4820 (3) Topics: Real Estate Development

Surveys the process of real estate development with a focus on the market analysis, urban dynamics and financing. Students will understand the complexities of the development process as it creates the communities in which we live and the many roles the student can play as a real estate professional. Prereq., REAL 3000. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Real Estate

CESR-4821 (3) Values & Power of the Consumer in Society

As a critical stakeholder group, consumers have substantial power to shape business behavior. Students will develop an understanding of the roles business can play in society, and the options and limitations that consumers have to influence business by exerting their purchasing power. This class is exclusively for non-business majors and will not count toward the business major or business minor. Prerequisites: Open to Non Business and Non Sponsored Students.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

ACCT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Restricted to juniors/seniors. Same as ACCT 5825.

Leeds School of Business | Accounting

BADM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Administration. Restricted to juniors/seniors.

Leeds School of Business | Business Administration

BSLW-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Law. Restricted to juniors/seniors.

Leeds School of Business | Business Law

CESR-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Social Responsibility. Prereq., BCOR 3010. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

ESBM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Entrepreneurship and Small Business Management. Restricted to juniors/seniors.

Leeds School of Business | Entrepreneurship and Small Business Management

FNCE-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Finance. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business | Finance

INBU-4825 (1-6) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in International Business Entrepreneurship. Prerequisites: Restricted to students with 57-86 credits (Junior).

Leeds School of Business | International Business

MGMT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Management. Restricted to Business (BUSN) majors with 52-180 units completed. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MKTG-4825 (1-3) Pricing and Channels of Distribution

Offered irregularly to provide opportunity for investigation of new frontiers in Marketing. Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior).

Leeds School of Business | Marketing

REAL-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Real Estate. Restricted to juniors/seniors.

Leeds School of Business | Real Estate

CESR-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

ESBM-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to

non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

ACCT-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as CESR 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business | Accounting

CESR-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as ACCT 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business | Curriculum Emphasis on Social Responsibility

BADM-4830 (1-3) Special Topics

Various topics in business and society drawing from a variety of business disciplines. Restricted to junior/senior BU majors. Prerequisites: Restricted to College of Business majors only.

Leeds School of Business | Business Administration

ESBM-4830 (3) Entrepreneurship Business Planning and Preparation

Work as part of a small team, with the focus on the process of creating a plan from the business concept and model through all of the elements of a professionally written business plan document. Prereqs., ESBM 3700 and 4570. Same as EMEN 4825. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Entrepreneurship and Small Business Management

FNCE-4830 (3) Seminar in Investment Banking

Introduces the student to a career in investment banking and provides specific modeling skills necessary and important during the first phase of such a career. Prereq., BCOR 2200. Recommended prereq., FNCE 3010. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Finance

FNCE-4831 (3) Seminar in Investment Management

The purpose of this course is for students to understand the investment management profession. The course is designed to be a blend of theory and practice. Extends the basic principles of security analysis, asset pricing theory, portfolio construction, and portfolio performance evaluation. Students will apply these principles in determining, over the semester, how to manage the CU investment fund. Prereqs., BCOR 2000, 2300, and FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Finance

FNCE-4832 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

Leeds School of Business | Finance

ACCT-4850 (3) Senior Seminar in Accounting

This seminar examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Prereqs., ACCT 3230, one 4000-level ACCT course. Restricted to 102 hours completed and to graduating senior ACCT majors. Formerly BCOR 4001. Prerequisites: Restricted to Accounting majors with 102-180 units completed.

Leeds School of Business | Accounting

FNCE-4850 (3) Business Senior Seminar in Finance

Develops analytical and decision making skills necessary to address real-world business finance situations. Topics include financial analysis and forecasting, capital budgeting, valuation, capital structure policy, international finance, and financial ethics. Uses a combination of lecture and cases; team and individual work. Prereqs., ACCT 3220, FNCE 3010, 4030, and 102 hours completed. Restricted to graduating senior FNCE majors. Formerly BCOR 4002. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Finance majors with 102 to 180 units completed.

Leeds School of Business | Finance

MGMT-4850 (3) Senior Seminar in Management

Covers the issues and challenges of running a firm in a competitive environment. It integrates and builds upon coursework in other functional areas. Discusses principles, frameworks, and techniques that helps understand how to analyze the competitive environment; firm sources of competitive advantage; competitive dynamics; and, specific types of strategies to promote firm performance. Focuses on specific company examples. Prereqs., BCOR 2300, 2500, MGMT 3030. Restricted to students with 102-180 units completed. Formerly MGMT 4000. Prerequisites: Restricted to students with 102-180 units completed.

Leeds School of Business | Management

MKTG-4850 (3) Senior Seminar in Marketing

Capstone marketing course that integrates and further develops what students have learned in other courses. Provides students with the insight and skills necessary to formulate and implement

sound socially responsible marketing strategies, product line management strategies, promotional and product/service communication strategies, pricing, and distribution strategies. Prereqs., MKTG 3250, 3350, two additional 4000-level MKTG courses from either MKTG 4250, 4300 or 4550 with the third serving as a co-requisite, and 102 hours completed. Restricted to graduating MKTG majors. Formerly BCOR 4004. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350 and either MKTG 4250 or 4300 or 4550. Restricted to MKTG Majors with 102 to 180 units completed.

Leeds School of Business | Marketing

ACCT-4900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors. Departmental form required.

Leeds School of Business | Accounting

BSLW-4900 (1-3) Independent Study

Leeds School of Business | Business Law

ESBM-4900 (1-3) Projects in Entrepreneurial Companies

Complete projects in preselected entrepreneurial companies. Prereq., instructor consent.

Leeds School of Business | Entrepreneurship and Small Business Management

FNCE-4900 (1-6) Independent Study

Intended only for exceptionally well qualified business seniors. Prereq., prior consent of dean and instructor under whose direction study is taken, and departmental form.

Leeds School of Business | Finance

INBU-4900 (1-12) Independent Study

Prereq., instructor consent. Departmental form required.

Leeds School of Business | International Business

MGMT-4900 (1-3) Independent Study

Intended only for exceptionally well qualified business seniors. Departmental form required. Prereq., dean and instructor consent.

Leeds School of Business | Management

MKTG-4900 (1-6) Independent Study

Intended only for exceptionally well qualified business seniors. Instructor and division chair consent required.

Leeds School of Business | Marketing

REAL-4900 (1-3) Independent Study

Intended for exceptionally well-qualified business seniors who desire to study an advanced topic. Must be in Real Estate Certificate Program. Prereq., dean and instructor consent.

Leeds School of Business | Real Estate

BADM-4910 (2) VITA-Volunteer Tax Assistance

Offers students the opportunity to gain professional work experience in an accounting position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Prereqs., BCOR 2000 and ACCT 4440 or ACCT 5440. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Business Administration

MGMT-4910 (1-3) Academic Internship in Management

Offers students the opportunity to gain professional work experience in a management position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes 100 hours per credit and a course paper. Instructor consent is required. Pass/Fail grading only. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4910, OPIM 4910. Prerequisites: Restricted to students with 52-180 units completed.

Leeds School of Business | Management



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INBU-5100 (3) International Business and Marketing

Same as MKTG 3450.

[Leeds School of Business](#) [International Business](#)

BSLW-5120 (3) Advanced Business Law

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting-Taxation or Business Administration graduate students only. Same as BSLW 4120. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

[Leeds School of Business](#) [Business Law](#)

MGMT-5120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) [Management](#)

MGMT-5230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Graduate Students only.

Leeds School of Business | Management

ACCT-5240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5250 (3) Financial Statement Analysis

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereqs., ACCT 3220 and MBAC 6020. Same as ACCT 4250. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereq., ACCT 3320. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5440 (3) Income Taxation of Individuals

Prereq., ACCT 3220. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4440. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5540 (3) Accounting Information Systems

Prereq., ACCT 3220 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4540. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4620. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5700 (3) International Accounting

Intensive focus on international financial statement analysis, cultural and economic differences that affect financial reporting in various countries. Examples include international financial reporting standards and accounting for foreign currency transactions. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4700. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereq., ACCT 3220. Same as ACCT 4800. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5820 (3) Topics in Business

Prereq., ACCT 3230 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4820. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

MGMT-5820 (3) Topics in Business

Same as MGMT 4820.

Leeds School of Business | Management

ACCT-5825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Prereq. ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4825. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6000 (1-4) Academic Internship in Accounting

Offers students the opportunity to gain professional work experience in an accounting or tax position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes lectures and a course paper. Students may not preregister for this course, and they must contact the Director of the concurrent degree program in accounting for approval. Restricted to graduate students only. Prereq., ACCT 3230, at least 90 credit hours of course work and a minimum GPA of 3.00, and instructor consent. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

MBAC-6000 (3) Socially Responsible Enterprise

Prepares future managers for confronting the truly difficult situations that arise when deploying economic resources, altering the physical environment, and making decisions that affect the lives of investors, employees, community members and other stakeholders. Case-based challenges will be examined in a broad range of contexts, and essential ethical concepts will be explored by drawing on theories from ethics, sociology, economics, political science and philosophy. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6010 (3) Managerial Economics

Studies the elements of the business firm's fundamental problem--how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6011 (2) Managerial Economics 1

Studies the elements of the business firm's fundamental problem--how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of the relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6012 (2) Managerial Economics 2

See MBAC 6011. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6020 (3) Financial Accounting

Introduces the financial reporting system used by business organizations to convey information about their economic affairs. Develops an understanding of financial reports and what they tell about a business enterprise. Focuses on how alternative accounting measurement rules represent different economic events in financial reports. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6030 (3) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory and sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers, and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6031 (2) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory, sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6050 (3) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAX-6051 (2) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes

the fit between competitive analysis and the role of management and organization.

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MBAC-6052 (3) Capstone Projects

Provides students with an opportunity to focus on a specific project which would have a positive strategic impact on the company for which they work. For those who have entrepreneurial aspirations, this project could result in a business plan for a new venture. Final deliverable should address marketing, financial, operational, and management implications and strategic impact.

Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAC-6060 (3) Corporate Finance

Analyzes the implications of modern finance theory for the major decisions faced by corporate financial managers. Develops the basic skills necessary to apply financial concepts to the various problems faced by a firm. Includes capital budgeting, capital structure, long term financing, short term financial management, and financial planning topics. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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OPIM-6070 (3) Survey of Operations Research

Applications oriented survey of operations research topics including linear and integer programming, network analysis, dynamic programming, nonlinear programming, decision analysis, Markov chain and Markovian decision models, queuing theory, and simulation. Same as EMEN 5600. Formerly SYST 6070.

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MBAC-6080 (3) Decision Modeling and Applications

Integrates topics from decision analysis and operations management as they relate to modeling management decisions. Field projects involve the university, local companies, and/or government agencies. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

OPIM-6080 (3) Operations Management

Covers demand forecasting, capacity management, scheduling, inventory planning and management, production planning and control, materials requirements planning, just-in-time production systems, product design and process selection, elements of statistical process control, service operations, and quantitative techniques for operations decision making. Similar to EMEN 5500. Formerly SYST 6080.

Leeds School of Business | Operations and Information Management

MBAC-6090 (3) Marketing Management

Provides a solid foundation of marketing knowledge by focusing on principles of marketing. Introduces the role that marketing cases play in advancing understanding and skill development in the field of marketing. Case discussions illustrate concepts discussed, and case studies are used to introduce the marketing decision making process. Emphasizes the international nature of marketing, as well as the importance of analysis and the understanding of the economic, demographic, political-legal-regulatory, sociocultural, technological, and natural environments. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6098 (1) Business Writing

Develops business writing skills, with specific focus on style rather than content. Assists students in improving their writing skills in order to be effective communicators in their professional careers. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6099 (2) Professional Development

Develops presentation and interview skills to help students become effective communicators in their professional careers and to acquaint themselves well in the job placement process. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAX-6100 (3) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures. Allows students to assess their fit with entrepreneurial firms. Key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereq., MBAC 6020 or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6101 (2) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures; allows students to assess their "fit" with entrepreneurial firms. A key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6110 (3) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6111 (2) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6120 (3) Entrepreneurial Marketing

Addresses the marketing challenges that face the entrepreneur or start up firm with a limited budget. From initially positioning the company and its products to marketing that position to key shareholders for a new venture, to establishing channels of distribution and reaching the consumer, take a specialized look at the development and implementation of a marketing plan. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6170 (3) Business Plan Preparation

Completion of a sophisticated business plan within task groups from concept through all the elements of a professionally written business plan. Provides students high interaction with businesses and entrepreneurs. Prereq., MBAC 6020 and MBAX 6100, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6171 (2) Business Plan Preparation

In this course students will be responsible for the completion of a sophisticated business plan within task groups from the concept through all the elements of a professionally written business plan.

The course provides students high interaction with businesses and entrepreneurs. Prereqs., MBAC core courses and MBAX 6100, or instructor consent. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6180 (3) Startup Execution

Covers a variety of topics in applied entrepreneurship, including the steps required to legally launch a business and procedures for executing standard business functions (organization, marketing, sales, advertising, operations, team building, and finance) with minimal resources (cash, personnel, and equipment). Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6190 (3) Projects in Entrepreneurial Companies

Limited to 12 students per section, each student is matched with an entrepreneurial company to complete a project that is key to company strategy. Students experience total company environment from the top management level through attending management meetings and interacting with cross-functional managers and employees. E-mail and face-to-face meetings result in discussing opportunities and issues resulting from experiences in companies. Prereq., MBAX 6100. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6200 (3) Advanced Corporate Finance

Covers the theory of asset pricing, which is then applied to capital budgeting, capital structure choice, mergers and acquisitions, and risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6210 (3) Applied Financial Management

Analyzes the financial condition, planning, and control of current assets, current liabilities, and long-term financial arrangements. Topics include financial planning, managing working capital, short- and long-term financing, capital budgeting, valuation, and capital structure policies. Case studies are emphasized. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6211 (2) Applied Financial Management

Focuses on how to apply key concepts in finance to real-world situations. Topics include valuation, capital structure, highly leveraged transactions, and financial distress and bankruptcy. Heavy emphasis on how to perform various kinds of valuations. Mixture of lectures and case discussions. Prereq., MBAC 6060. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

ACCT-6220 (3) Corporate Financial Reporting

Provides an in-depth study of the concepts underlying contemporary financial accounting practice. Includes preparation and analysis of financial statements and the application of concepts to selected current issues. Students with credit for ACCT 3220 and 3230 or equivalents may not receive credit for ACCT 6220. Prereq., MBAC 6020 or equivalent. Same as MBAX 6700.

Leeds School of Business | Accounting

MBAX-6220 (3) Investment Management and Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6221 (2) Investment Management & Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereqs., MBAC core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6230 (3) International Financial Management

Examines the financial procedures, policies, and risks faced by firms conducting business internationally. Topics include examining the international finance environment, managing foreign exchange risk exposure, managing international working capital, conducting analysis, and developing an understanding of international financial markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6240 (3) Financial Markets and Institutions

Deals with the economics of financial markets and the management of financial institutions. Covers factors influencing the cost and availability of capital for financing business firms. Examines both domestic and international markets and institutions. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

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ACCT-6250 (3) Financial Statement Analysis

Focuses on the use of accounting information by decision makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity analysis. Prereq., MBAC 6020 or equivalent. Same as MBAX 6710.

Leeds School of Business | Accounting

MBAX-6250 (3) Derivative Securities

Derivatives, like options, futures, forwards, and swaps, encompass all aspects of finance. Topics cover the characteristics, valuation, and trading strategies associated with derivatives as well as their use in risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

ACCT-6260 (3) Seminar: Managerial Accounting

Explores cost management, especially as related to organizational decision making, planning, and control. Emphasizes case analysis and applications. Prereq., MBAC 6020 or equivalent, or instructor consent.

Leeds School of Business | Accounting

MBAX-6260 (3) Fixed Income Investing

Fixed income securities are those that nominally promise a fixed stream of payments. They include government and corporate long and short term debt issues that far exceed the amount of corporate stock issues, as well as long term personal debt (i.e., home mortgages). Develops practical analytical tools for describing these securities, the markets where they are traded, and their purchase and management by financial intermediaries. Stresses the huge market for U.S. government debt, because it provides a foundation for the development of more specialized tools used in other markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

ACCT-6270 (3) Seminar: Income Determination

Critical analysis of problems and theory of measurement and reporting of periodic net income of business organizations. Net income models, research efforts, and role of professional accounting organizations. Current issues and problems given special attention. Prereq., ACCT 3230 or equivalent, or instructor consent.

Leeds School of Business | Accounting

MBAX-6300 (3) Marketing Communication

Focuses on the strategic and decision making aspects of marketing communication from a managerial perspective. Increases students' understanding of specific decision elements within an integrated marketing communications framework. Topics include promotional objectives, agency relations, media selection, budgeting, and advertising research. Also explores relevant advertising models and the economic and social effects of promotional activity. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Marketing

MBAX-6301 (2) Marketing Communications

Focuses on the strategic and decision-making aspects of marketing communication from a managerial perspective. Designed to increase students' understanding of specific decision elements within an integrated marketing communications framework. Topics covered include promotional objectives, agency relations, media selection, budgeting, and advertising research. Explores relevant advertising models and the economic and social effects of promotional activity. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Marketing

MBAX-6310 (3) Marketing Strategy

Marketing strategy has developed into an increasingly critical managerial activity as businesses recognize the importance of creating customer value and being customer oriented. Discusses key elements of successful marketing strategy including market/customer analysis and competitor analysis, and identifies strategic approaches managers may adopt to succeed in today's highly competitive and rapidly changing business environment. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6311 (2) Marketing Strategy

Marketing strategy is a critical managerial activity that recognizes the importance of a strong market focus and the delivery of superior customer value as bases for long term financial success. This

course examines key elements of successful marketing strategy including optimal market definition, strong segmentation and positioning approaches, high levels of customer satisfaction, and effective management of critical exchange relationships. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Marketing

MBAX-6330 (3) Market Intelligence

Market Intelligence is a decision-oriented course geared toward gathering, analyzing, and interpreting data about markets and customers. Students learn how to: define the marketing problem and determine what information is needed to make the decision; acquire trustworthy and relevant data and judge its quality; analyze the data and acquire the necessary knowledge to make certain classic types of marketing decisions. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6331 (2) Market Intelligence

Market Intelligence is a marketing decision-oriented course geared toward gathering, analyzing, and interpreting data about markets and customers for both products and services. It is for managers as users of market information across marketing management, consulting, general management, and entrepreneurship to address problems of market selection, segmentation, positioning, new products, customer value and retention, pricing, communication, channel, etc. Prereq., MBAC core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Marketing

MBAX-6340 (3) Marketing Field Project

Develops skills in marketing decision making. Teams design and complete a project located at a client business or other organization in the metropolitan area. Team members organize and assign responsibilities, interact with middle- and top-level managers, apply quantitative and behavioral tools presented in marketing and other courses, meet deadlines, and present results of project activities. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

ACCT-6350 (3) Current Issues in Professional Accounting

Examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Counts as senior seminar for Concurrent degree students. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

MBAX-6350 (3) Digital Marketing

Covers a variety of ways an organization uses online presence to support its goals. The main approaches covered are search engine optimization (SEO); online advertising, especially search ads

(also called search engine marketing, SEM); and social media. SEO is setting up your website so that the right people can find you. Emphasis placed on selecting keywords and tracking responses to changes to a website. SEM refers to paid ("sponsored") ads on search engines. We will focus on AdWords. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6360 (3) New Product Development

Provides a better understanding of the new-product development process, highlighting the inherent risks and strategies for overcoming them. Using a combination of lectures, cases, and a project, this course examines the process of designing, testing, and launching new products. Emphasizes the interplay between creativity and analytical marketing research throughout the development process. Also covers branding issues, such as brand extensions and their impact on brand equity. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6361 (2) New Product Development

Provides students with a better understanding of the new-product development process, highlighting the inherent risks and different strategies for overcoming them. Using a combination of lectures, cases, and a project, this course will examine the process of designing, testing and launching new products. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Marketing

MBAX-6410 (3) Business Process Design

Covers the concepts and tools to design and manage business processes. Emphasizes modeling and analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Systems

ACCT-6420 (3) Research and Writing in Income Taxation

Studies and applies the method used in tax research and tax planning, with the goal of developing tax research, technical writing, and tax planning skills. Topics include examining primary and secondary sources of federal tax law, evaluating the hierarchy of these sources, and developing technical writing skills using deductive legal reasoning. Prereq., ACCT 5440 or equivalent, or instructor consent. Prerequisites: Restricted to graduate students in Accounting, Finance, Mgt Sci-Information Systems, Organizational Management, Marketing, Business Administration, or Master of Business Administration.

Leeds School of Business | Accounting

MBAX-6420 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to

success. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Systems

MBAX-6421 (2) IT & Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. This course combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

ACCT-6430 (3) Taxation of Partnerships

Studies federal income taxation of pass-through entities such as those used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., ACCT 5440 or equivalent, or instructor consent. Coreqs., ACCT 6420 and 6700. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as LAWS 6167. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6440 (2-3) Tax Policy

Offers a research seminar exploring policy issues of taxation including recent legislative proposals. Students prepare a publishable research paper on a tax policy topic agreed upon with the instructor. Prereq., ACCT 5440 or equivalent, or instructor consent. Coreqs., ACCT 6420 and 6700.

Leeds School of Business | Accounting

MBAX-6440 (3) Project Management

Acquaints students with multidisciplinary aspects of project management, including the relationship between schedule, cost and performance. The course uses a hands-on project where the student interacts with a real customer, providing an opportunity to utilize the qualitative and quantitative tools taught in the classroom. At the conclusion of the course, the student may be eligible to apply for a project management certification from Project Management Institute based on previous work experience. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6441 (2) Project Management

Acquaints the student with multidisciplinary aspects of project management, including the relationship between scope, schedule, cost and performance. Uses a hands-on project from your own company, providing an opportunity to utilize the qualitative and quantitative tools taught in the classroom. During the course students will earn hours toward project management certification from the Project Management Institute. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

ACCT-6450 (3) Taxation of Corporations

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., ACCT 5440 or instructor consent. Coreqs., ACCT 6420 and 6700. Same as LAWS 6157. Prerequisites: Restricted to Business Administration, Accounting, Accounting-Taxation, Accounting-Information Systems, Mgt Sci-Information Systems, Finance, Marketing or Master of Business Admin graduate students only.

Leeds School of Business | Accounting

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MBAX-6450 (3) International Operations Management

Takes a broad comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international operations including trade practices; penetration strategies; financial, marketing, services, and manufacturing operations; ethical and sustainability issues; and global competitive strategy. Compares global business practices in Asia, South America, Europe, and Africa. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Management](#)

MBAX-6460 (3) Supply Chain Management

Explores the key issues related to the design and management of supply chains. Covers the efficient integration of suppliers, production facilities, warehouses, and stores so that the right products in the right quantity reach customers at the right time. Focuses on the minimization of the total supply chain cost subject to service requirements imposed by a variety of industries. Recommended prereq., MBAC 6080. Same as OPIM 4050. Formerly MBAX 6865. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Systems](#)

ACCT-6490 (3) Taxation of Natural Resources

Concerned with tax problems encountered in acquisition, operation, and disposition of natural resource properties. Topics include depletion, lease bonuses, intangible drilling costs, depreciation, and financing arrangements. Prereq., admission to the graduate tax program, ACCT 6700 or equivalent, or instructor consent.

[Leeds School of Business](#) [Accounting](#)

ACCT-6500 (3) Special Topics in Taxation

Covers a diverse array of issues in taxation. Highlights areas of current interest and draws on the strengths of leading outside authorities as guest lecturers in various topic areas. Prereq., ACCT 6420 and 6700.

Leeds School of Business | Accounting

MBAX-6500 (3) Management of Organizational Change

Explores ways to improve organizations to meet demands of changing environments. Emphasizes theoretical framework and models of organization change, barriers to implementing change and ways to overcome them, and the roles of the change agent and/or consultant. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6530 (3) Negotiating and Conflict Management

Explores and builds skills for conflict management and negotiation problems faced by managers (e.g., dealing with subordinates, peers, superiors, or clients). Content is relevant to all MBA students, especially those interested in management, accounting, entrepreneurship, finance, and marketing. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6531 (2) Negotiations

Practice the art and science of successful negotiations. Provides students high interaction with businesses and entrepreneurs. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6540 (3) Consulting Skills

Provides an integrative, hands-on exercise in managing change. Develops skills in contracting, collecting, and analyzing data, and writing reports. Teams practice these skills by conducting an organizational diagnosis, consulting project within an organization. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6550 (3) Management of Technology and Innovation

Examines a variety of issues common to management of technology, such as technology strategies, methods of technology transfer, selecting technology standards, managing the research and development process, and encouraging and rewarding innovation. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6560 (3) Executive Leadership

Examines organizational leadership from the executive perspective, including private and public sector firms, and non-profits. Studies how executives lead change and innovation, interact with the top management team, and deal with the board of directors. Topics include governance of the firm, strategies for enhancing executive influence, assessing and understanding diverse leadership styles, and the ethics and responsibilities of an executive. Formerly MBAX 6890. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6561 (2) Executive Leadership

Provides an opportunity to examine leadership from the executive perspective in organizations including private and public sector firms and non-profits. Topics covered include how executives lead change and innovation in organizations, interact with the top management team, deal with the board of directors, leadership issues involved with governance of the firm and strategies for enhancing executive influence. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6600 (3) Real Estate Principles

Studies methods of analyzing real estate opportunities, local government controls and regulations of the development process. Majority of class material is provided via case studies and guest lecturers. Last portion of the course will be the presentation of student group projects. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Real Estate

MBAX-6610 (3) Real Estate Finance and Investment Analysis

Objectives of the course are to conduct income property investment analysis; to develop the technical competence necessary to structure real estate transactions; and to understand the financial assets securitized by real estate. Students will analyze income properties using Excel spreadsheets and Argus Financial Software. Techniques for structuring real estate transactions examined in this course include lender participations, sale-leasebacks, joint ventures, and real estate syndications. Prereq., MBAX 6600 or equivalent, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Real Estate

ACCT-6620 (3) Advanced Auditing: Business Risk and Decision Analysis

Explores contemporary issues, historical developments, and selected topics pertinent to business assurance services by independent accountants. Emphasizes improving both the decision behavior of decision makers and the quality of information, or its context, for decision makers. Prereq., ACCT 5620 or equivalent.

Leeds School of Business | Accounting

MBAX-6620 (3) Real Estate Project Competition

Develops skills in real estate decision making. Teams design, complete, and present a real estate project in a competition forum. Students gain an understanding and working knowledge of real estate, use a piece of real property to determine its highest and best use, create a sales plan, and prepare a real estate financing package. Team members organize and assign responsibilities, interact with real estate professionals, and apply appropriate quantitative and qualitative tools and procedures. Prereqs., MBAX 6600, 6610 and 6640, or equivalent, or instructor consent.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Real Estate

MBAX-6630 (3) Real Estate Economics

Examines real estate market operations and discusses alternative methodologies for estimating real estate values. Examines various theories of land price determination and uses these models to understand how the private market allocates land to competing residential, office, retail, industrial/warehouse, hotel, and other end users. Examines how factors influencing the demand for real estate interact with the supply of real estate to determine market rents and how the flow of future expected income is capitalized to yield the market price of the asset. Prereqs., MBAC 6011 and MBAC 6060. Formerly MBAX 6835. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Real Estate

MBAX-6640 (3) Real Estate Law and Practice

Examines the legal issues associated with developing, acquiring, transferring, and leasing real property. Topics include real estate contracts, land use and development agreements, vehicles for owning real estate, real estate covenants, conditions and restrictions, loan transactions, negotiating real estate contracts, commercial leases and real estate taxation. Material for this course will consist of assigned articles and real estate cases. Prereq., MBAX 6600 or equivalent, or instructor consent. Formerly MBAX 6855. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Real Estate

ACCT-6700 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prereq., ACCT 5440 or equivalent. Same as LAWS 6007. Prerequisites: Restricted to Accounting (ACCT), Accounting-Information Systems (ACIS), Accounting - Taxation (ACTX), Master of Business Admin (MBA) or Business Administration (BUAD) graduate students only.

Leeds School of Business | Accounting

MBAX-6700 (3) Corporate Financial Reporting

Provides an in-depth study of the concepts underlying contemporary financial accounting practice. Includes preparation and analysis of financial statements and the application of concepts to selected current issues. Prereq., MBAC 6020 or equivalent. Same as ACCT 6220. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Accounting

ACCT-6710 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prereq., ACCT 5440 or

equivalent. Coreqs., ACCT 6420 and 6700. Same as LAWS 7207. Prerequisites: Restricted to Accounting (ACCT), Accounting-Information Systems (ACIS), Accounting - Taxation (ACTX), Master of Business Admin (MBA) or Business Administration (BUAD) graduate students only.

Leeds School of Business | Accounting

MBAX-6710 (3) Financial Statement Analysis

Focuses on the use of accounting information by decision makers external to the firm. Considers judgments made by security analysts, bank lending officers, and auditors. Emphasizes credit scoring, risk analysis, and equity valuation. Prereq., MBAC 6020 or equivalent. Same as ACCT 6250. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Accounting

ACCT-6720 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prereq., ACCT 6710 or equivalent. Same as LAWS 7217.

Leeds School of Business | Accounting

MBAX-6760 (3) Accounting for Managers

Explores cost management, especially as related to organizational decision making, planning, and control. Emphasizes case analysis and applications. Prereq., MBAC 6020 or equivalent or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Accounting

MBAX-6761 (2) Managerial Accounting, Planning and Control

Introduces managerial accounting, which includes the concepts, models, and systems that provide this information and control. The course will familiarize participants with the terminology and basic concepts of managerial accounting, touching on topics ranging from development and use of cost information for decision-making to management control systems. Prereq., MBAC 6020. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Accounting

ACCT-6780 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as LAWS 7617. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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MKTG-7820 (3) Doctoral Seminar: Sociological and Anthropological Approaches to Research in Market

Inquires into substantive and methodological issues concerning postmodern consumer research. Attains depth in a few areas while also providing a framework in which to situate other substreams of research. Uses ethnography, semiotics, literary analysis, and other interpretive methods to examine topics such as brand and store loyalty, atmospheric and shopping dynamics, creation of brand meanings, and other marketplace behaviors.

[Leeds School of Business](#) [Marketing](#)

OPIM-7820 (3) Advanced Research in Information Systems

Examines advanced topics in information systems research, focusing on the electronic era and ebusiness. Examines foundations of ebusiness, including basic technical, organizational, and behavioral foundations. Covers leading edge research from both topical and methodological perspectives. Focuses on methods appropriate for studying ebusiness and examines future research directions. Prereq., PhD standing or instructor consent. Formerly SYST 7820.

[Leeds School of Business](#) [Operations and Information Management](#)

MKTG-7825 (3) Doctoral Seminar: Empirical Models in Marketing

Presents state-of-the-art empirical modeling techniques (both reduced-form and structural) used by marketing scientists, as well as discuss the key findings generated from major empirical studies. Acquaint the class participants with the systematic process of conducting rigorous empirical marketing research, enable them to read and critically review empirical papers in leading marketing journals and, ultimately, start doing independent empirical research. Prereq., a graduate course in regression.

[Leeds School of Business](#) [Marketing](#)

ACCT-7830 (3) Doctoral Seminar: Accounting Research

Designed to assist the doctoral student in integrating courses and fields of study in order to be able to apply knowledge and skills to problems in accounting. Special attention given to the development of thesis topics.

Leeds School of Business | Accounting

FNCE-7830 (1) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to apply their knowledge and skills to problems in finance. Gives special attention to development of thesis topics. Continuous enrollment required of all finance doctoral students while doing course work.

Leeds School of Business | Finance

MKTG-7830 (3) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to be able to apply knowledge and skills to problems in marketing. Gives special attention to development of thesis topics.

Leeds School of Business | Marketing

ORMG-7830 (3) Research Design and Methods in Management

Introduction to research design and commonly used methods in management and organizational research. Covers the fundamental building blocks of research, provides the basics of a number of analytical techniques, and presents considerations important in analyzing multivariate data in organizational research. Restricted to Ph.D. students only.

Leeds School of Business | Organization Management

ACCT-8820 (1-6) Graduate Seminar

Provides opportunity for investigation of new frontiers in accounting through an experimental seminar. May be repeated up to 6 total credit hours. Prereq. varies. Offered irregularly.

Leeds School of Business | Accounting

FNCE-8820 (3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

Leeds School of Business | Finance

MKTG-8820 (1-6) Doctoral Seminar: Special Topics

Studies marketing literature on a topic or topics selected by instructor. Examples include marketing history, international marketing management, marketing environment, marketing of high technology products, and marketing models.

Leeds School of Business | Marketing

ORMG-8820 (1-4) Graduate Seminar

Provides opportunity for investigating new frontiers in organization management through an experimental seminar (offered irregularly).

Leeds School of Business | Organization Management

ACCT-8900 (1-3) Independent Study

Requires instructor's consent and departmental form (taught as doctoral seminar). Prerequisites: Restricted to Business graduate students only.

Leeds School of Business | Accounting

BPOL-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Business Policy and Strategy Management

FNCE-8900 (1-3) Independent Study

Instructor consent and departmental form required.

Leeds School of Business | Finance

MGMT-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Management

MKTG-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Marketing

ORMG-8900 (1-3) Independent Study

Leeds School of Business | Organization Management

ACCT-8990 (1-10) Doctoral Thesis

Prerequisites: Restricted to Business graduate students only.

Leeds School of Business | Accounting

BPOL-8990 (1-10) Doctoral Thesis

Leeds School of Business | Business Policy and Strategy Management

FNCE-8990 (1-10) Doctoral Thesis

Leeds School of Business | Finance

MGMT-8990 (1-10) Doctoral Thesis

Work with a faculty advisor on a doctoral thesis. Student should have passed comprehensive exam before registering for doctoral thesis hours. Prerequisites: Restricted to Graduate Students only.

Leeds School of Business | Management

MKTG-8990 (1-10) Doctoral Thesis

Leeds School of Business | Marketing

OPMG-8990 (1-10) Doctoral Thesis

Leeds School of Business | Master of Business Administration | MBA: Operations & Prod Mgmt

ORMG-8990 (1-10) Doctoral Thesis

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ENVD-1004 (3) Introduction to Environmental Design Theory

Introduces students to the complexity of forces that interact to shape the designed environment. A lecture sequence and parallel set of design exercises exposes students to the theory and practice of environmental design, and to the important issues that guide the work of architects, landscape architects, urban designers, and urban planners. Open to nonmajors on a space available basis. Coreqs., ENVD 1052, 2001. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#)
[Environmental Design](#)
[History and Theory](#)

ENVD-1010 (3) Design Appreciation

Designed for students who are interested in pursuing a degree in design. Provides a foundation for viewing the world through the "eyes" of a designer and gives a broad overview of various design professions including: Architecture, Planning, Landscape Architecture, and Industrial Design through a basic history of design and speculation concerning the future of these professions. Restricted to non-ARPL students. Prerequisites: Restricted to non-Environmental Design majors only.

[Program in Environmental Design](#)
[Environmental Design](#)
[History and Theory](#)

ENVD-1052 (3) Design and Communication 1

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by emerging digital techniques for the depiction of designed artifacts and environments, allowing students to extend and enhance their understandings of advanced practices for design visualization, representation, and communication. Coreqs., ENVD 1004, 2001. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#)
[Environmental Design](#)
[Methods and Techniques](#)

ENVD-1102 (3) Design and Communication 2

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by traditional techniques for the advanced practices for design visualization, representation, and communication. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1104, 2003.

Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- for all). Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-1104 (3) Introduction to Environmental Design Methods

Explores the forces and conditions that interact to shape the designed environment. It does so through a lecture sequence and parallel set of design exercises introducing students to the theory and practice of environmental design. It develops student understandings of the central role design thinking plays as the unique process used to effect appropriate change in the designed environment. Prereq., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- required for all). Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-2001 (3) Human Behavior in Design and Planning

Examines reciprocal relationships between people and their built and natural environments, tracing major issues and approaches in design research to understand how people are influenced by the environment and how they can create healthy, just, and livable places. Coreqs., ENVD 1004, 1052. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-2002 (3) Environmental Design Media 1

Using both lectures and drawing exercises, this class examines the traditional representational conventions used by the design professions to depict and describe space, form, pattern and information. Uses a multi-disciplined approach that explores the three basic intentions that inform the marks that designers make: visualization, representation and communication. Prereq., ENVD 1004. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-2003 (3) Ecology and Design

Introduces basic principles and techniques of ecology as they relate to the design and understanding of the built environment. Includes a study of hazards and the impact of modern technology on the natural and built environments. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 1104. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (with min grade C- for all). Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-2052 (3) Introduction to Computers in Planning

Introduces the use of computers in design fields, including applications for word-processing, desktop publishing, graphic creation, and Cad-style design. Aims to provide basic general skills in computer use that are transferable to other computer applications. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-2100 (6) Architecture Studio 1

The first of four architecture studios, this class introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2002. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-2110 (6) Environmental Design Studio

This class exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to fundamental design practices common to the disciplines---architecture, landscape architecture, planning, urban design---that share the responsibility for shaping the designed environment. Prereq., ENVD 2002.

Program in Environmental Design | Environmental Design | Studios

ENVD-2120 (6) Environmental Design Lab - Urban Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 3122, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-2130 (6) Environmental Design Studio: Landscape Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of architecture, urban design and landscape design - disciplines that share the responsibility for shaping the designed environment. Prereqs., ENVD 1004 and 1104. Restricted to ARPL majors. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-2152 (3) Geographic Info Systems

Focuses on construction and use of computer-based information systems to represent and manipulate geographic data. Emphasizes the recording, mapping, and transforming of data for analysis and use by planners. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3001 (3) Environment and Behavior

Examines the social and behavioral aspects of relationships between people and the designed environment. Gives special attention to antecedent factors (why we have the environments we do), implications of given arrangements for special population groups, and responses to incongruent environments. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-3002 (3) Design Theory and Methods

The nature of design and systematic methods for improving design. Topics include: nature of design problems; structure of design process; theory of form; problem definition; generating solution ideas; evaluation; roles of form and function. Students use computers without having to learn to program. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3003 (3) Site Planning

Introduces the site planning process including: site analysis and its relationship to building program and site concept, and preparation of site plans. Emphasis is placed on the planning of the physical site through a thorough understanding of process, land use, site constraints and synthesis of ecological, functional and aesthetic considerations in the site planning process. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3004. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to College of Architecture and Planning majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-3004 (3) History of Landscape Architecture

Investigates landscape architectural thought from antiquity to the present. Begins with a review of Greek ideals and proceeds - through an appreciation of landscape and nature as essential cultural constituents - with a survey of major themes such as Renaissance Humanism, the Picturesque, and the varieties of Modernism, Neo-Eclecticism and most recent directions in landscape and garden design. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3003. Restricted to College of Architecture and Planning undergrads. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-3009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 1004 and 1052. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-3015 (3) Introduction to Historic Preservation

Introduces methods for identifying historic structures and evaluating their materials. Considers techniques for preserving and restoring and legal options for promoting preservation efforts. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Technology and Practice

ENVD-3022 (3) Technical Photography

Introduces students to the technical and practical aspects of making photographic images: the workings of the camera and lens, principles of depth of field, black and white film processing, printing, and basic darkroom procedures. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3052 (3) Introduction to Computer Methods in Environmental Design

Surveys existing and emerging computer methods used in the environmental design professions, with an introduction to computer programming. Open to nonmajors with instructor consent.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3100 (6) ENVD Studio--Architectural Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3115. Restricted to ARPL students only. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3110 (6) Architecture Studio 1

The first of four upper-division studios introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2110. Restricted to junior/senior ARCH majors.

Program in Environmental Design | Environmental Design | Studios

ENVD-3115 (3) Introduction to Building Materials and Systems

Surveys building methods, materials, and assemblies from the designer's perspective. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Technology and Practice

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ENVD-1004 (3) Introduction to Environmental Design Theory

Introduces students to the complexity of forces that interact to shape the designed environment. A lecture sequence and parallel set of design exercises exposes students to the theory and practice of environmental design, and to the important issues that guide the work of architects, landscape architects, urban designers, and urban planners. Open to nonmajors on a space available basis. Coreqs., ENVD 1052, 2001. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-1010 (3) Design Appreciation

Designed for students who are interested in pursuing a degree in design. Provides a foundation for viewing the world through the "eyes" of a designer and gives a broad overview of various design professions including: Architecture, Planning, Landscape Architecture, and Industrial Design through a basic history of design and speculation concerning the future of these professions. Restricted to non-ARPL students. Prerequisites: Restricted to non-Environmental Design majors only.

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ENVD-1104 (3) Introduction to Environmental Design Methods

Explores the forces and conditions that interact to shape the designed environment. It does so through a lecture sequence and parallel set of design exercises introducing students to the theory and practice of environmental design. It develops student understandings of the central role design thinking plays as the unique process used to effect appropriate change in the designed environment. Prereq., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- required for all). Restricted to Environmental Design majors only.

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ENVD-3004 (3) History of Landscape Architecture

Investigates landscape architectural thought from antiquity to the present. Begins with a review of Greek ideals and proceeds - through an appreciation of landscape and nature as essential cultural constituents - with a survey of major themes such as Renaissance Humanism, the Picturesque, and the varieties of Modernism, Neo-Eclecticism and most recent directions in landscape and garden design. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3003. Restricted to College of Architecture and Planning undergrads. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-3124 (3) Issues in Planning History

Broadly introduces physical environmental planning in the U.S., examining both historical roots and recent trends in American planning concepts and implementation. Emphasizes an analytical and critical approach to historical and contemporary planning issues, mechanisms, and cases. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 2120, 3122. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4114 (3) History of American Architecture and Urbanism

Surveys architecture, landscape architecture, urban design, and planning in the U.S. from ca. 1600 to the present. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4314 (3) Architectural Theory

Surveys, through lectures and readings, the major historical developments and contemporary directions in architectural theory. Prereqs., ARCH 3114 and ARCH 3214. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4364 (1-6) Special Topics: History and Historiography of Environmental Design

Provides an advanced seminar on history and historiography of environmental design, e.g., American dwellings. May be repeated for credit by petition. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4764 (1-6) Special Topics: Theory and Criticism in Environmental Design

Provides an advanced seminar on theory and criticism in environmental design, e.g., architecture now and introduction to design theory and criticism. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4794 (3) History of Urban Design and Planning

Examines history of European and American planning and urban design in the late 19th and 20th centuries. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-1052 (3) Design and Communication 1

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by emerging digital techniques for the depiction of designed artifacts and environments, allowing students to extend and enhance their understandings of advanced practices for design visualization, representation, and communication. Coreqs., ENVD 1004, 2001. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-1102 (3) Design and Communication 2

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by traditional techniques for the advanced practices for design visualization, representation, and communication. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1104, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- for all). Restricted to Environmental Design majors only.

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ENVD-2002 (3) Environmental Design Media 1

Using both lectures and drawing exercises, this class examines the traditional representational conventions used by the design professions to depict and describe space, form, pattern and information. Uses a multi-disciplined approach that explores the three basic intentions that inform the marks that designers make: visualization, representation and communication. Prereq., ENVD 1004. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-2052 (3) Introduction to Computers in Planning

Introduces the use of computers in design fields, including applications for word-processing, desktop publishing, graphic creation, and Cad-style design. Aims to provide basic general skills in computer use that are transferable to other computer applications. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-2152 (3) Geographic Info Systems

Focuses on construction and use of computer-based information systems to represent and manipulate geographic data. Emphasizes the recording, mapping, and transforming of data for analysis and use by planners. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3002 (3) Design Theory and Methods

The nature of design and systematic methods for improving design. Topics include: nature of design problems; structure of design process; theory of form; problem definition; generating solution ideas; evaluation; roles of form and function. Students use computers without having to learn to program. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3022 (3) Technical Photography

Introduces students to the technical and practical aspects of making photographic images: the workings of the camera and lens, principles of depth of field, black and white film processing, printing, and basic darkroom procedures. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3052 (3) Introduction to Computer Methods in Environmental Design

Surveys existing and emerging computer methods used in the environmental design professions, with an introduction to computer programming. Open to nonmajors with instructor consent.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3122 (3) Research Issues and Methods in Design and Planning

Explores topics of current interest in planning. Looks at the development and social consequences of the neighborhood movement, forms of municipal and regional governments, regional settlement patterns, and new communities. Introduces selected methods from the social sciences used by planners and urban designers. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 2120, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

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ENVD-3152 (3) Introduction to Computer Graphics Applications

Explores principles and uses of computer graphics in design. Topics include creation and modification of complex two- and three-dimensional objects; orthographic and perspective views; use of color; input using mouse and digitizer; output using screen, plotter, matrix printer, and slides; automated aids for form generation and manipulation; and analysis of current and future trends of computer usage for design. May be repeated up to 12 total credit hours. Prereq., ENVD 1052, 1102. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3212 (3) Color Theory

Illustrates color media techniques for the preparation, composition, and presentation of landscape and built environment drawings. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-3252 (3) Computer Graphic Programming

Provides an introductory computer programming course designed to teach the capabilities of a computer in providing graphic representations of environments, including buildings. Open to nonmajors.

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ENVD-3352 (3) Architectural Computer Media

Introduces the integration of computing and the architectural design process and related representational tasks. Studies common computer-aided design programs, emphasizing two- and three-dimensional and animation techniques. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4012 (3) Imagination and Creativity

Offers a seminar on imagination and creativity in environmental design. Students research and prepare a class presentation and paper on a topic of interest. Open to nonmajors at all levels.

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ENVD-4052 (3) Digital Presentation and Portfolio

Introductory course creating interactive web sites. Covers use of Hypertext Markup Language (HTML) and Flash to create linked pages containing text, images animations, menus, and buttons. Covers principles of site navigation, page layout, and graphic design for designers and planners. Credit not granted for this course and ENVD 2352. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4092 (3) Improving Imaging Ability

Offers an advanced course dealing with theories of imaging and methods of improving imaging in the design process. Open to nonmajors.

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ENVD-4112 (3) Architectural Graphics 1

Illustrates techniques of graphics communication and presentation for architectural design. Includes advanced delineation and use of color. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4122 (3) Advanced Technical Photography

Focuses on working with a variety of alternative photographic processes intended to give students an array of photographic techniques to incorporate into studio course presentations and portfolio work. Processes include hand-applied color to black and white images, using two or more negatives to produce black and white combination prints, shooting color slides to produce graphic arts, high-contrast black and white prints, and documentary photography of Colorado architecture and urban landscapes using color slide film. Students must provide their own 35mm SLR camera. Prereq., ENVD 3022 or ARTS 2191 or instructor consent.

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ENVD-4152 (3) Computer Graphic Applications

Introduces the mechanics of entering 2-D images and 3-D objects into the computer. Once entered, graphics are interactively rotated in space, walked through, and displayed in perspective from any position. Also covers the mechanics of other computer programs allowing additional manipulation of images and objects. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4192 (3) Improving Imaging Ability 2

Offers an advanced course dealing with theories of imaging and methods of improving imaging in the design process. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4212 (3) Architectural Graphics 2

Covers development of an architectural set of construction documents combined with job administration, field observation, and guest speakers from related construction and architectural

disciplines. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4322 (1-6) Special Topics: Graphics

Provides an advanced seminar on special issues in design communications. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4352 (1-6) Special Topics: Computer Methods

Topics include animation and environmental simulation, computational methods of technical evaluation and optimization, and computational mapping and analysis. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-1004 (3) Introduction to Environmental Design Theory

Introduces students to the complexity of forces that interact to shape the designed environment. A lecture sequence and parallel set of design exercises exposes students to the theory and practice of environmental design, and to the important issues that guide the work of architects, landscape architects, urban designers, and urban planners. Open to nonmajors on a space available basis. Coreqs., ENVD 1052, 2001. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-1010 (3) Design Appreciation

Designed for students who are interested in pursuing a degree in design. Provides a foundation for viewing the world through the "eyes" of a designer and gives a broad overview of various design professions including: Architecture, Planning, Landscape Architecture, and Industrial Design through a basic history of design and speculation concerning the future of these professions. Restricted to non-ARPL students. Prerequisites: Restricted to non-Environmental Design majors only.

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ENVD-1052 (3) Design and Communication 1

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by emerging digital techniques for the depiction of designed artifacts and environments, allowing students to extend and enhance their understandings of advanced practices for design visualization, representation, and communication. Coreqs., ENVD 1004, 2001. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-1102 (3) Design and Communication 2

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by traditional techniques for the advanced practices for design visualization, representation, and communication. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1104, 2003.

Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- for all). Restricted to Environmental Design majors only.

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ENVD-2001 (3) Human Behavior in Design and Planning

Examines reciprocal relationships between people and their built and natural environments, tracing major issues and approaches in design research to understand how people are influenced by the environment and how they can create healthy, just, and livable places. Coreqs., ENVD 1004, 1052. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-3001 (3) Environment and Behavior

Examines the social and behavioral aspects of relationships between people and the designed environment. Gives special attention to antecedent factors (why we have the environments we do), implications of given arrangements for special population groups, and responses to incongruent environments. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-4031 (3) Thinking Like a Mountain: A New Land Ethic

Critically reviews and analyzes land use policies, the ethics and economics of air and water pollution, regional sustainability, and resource management. Includes critical evaluation of empirical methodologies, and criteria of cultural and social equity. Prereq., junior or senior standing in the college.

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ENVD-4311 (3) Housing Policies and Practices

A seminar providing students with a descriptive knowledge and analytical understanding of the use and development of residential settings in different political economies, globally divided into advanced capitalist nations, collectivist economies, and the third world. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-4361 (1-6) Special Topics: Social Factors in Design

Addresses variable topics in the relationship of human experience and behavior to the built environment, e.g., social research methods in environmental design. Prereq., ENVD 2130.
Prerequisites: Restricted to Environmental Design majors only.

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ENVD-2003 (3) Ecology and Design

Introduces basic principles and techniques of ecology as they relate to the design and understanding of the built environment. Includes a study of hazards and the impact of modern technology on the natural and built environments. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 1104. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (with min grade C- for all). Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Physical Factors](#)

ENVD-3003 (3) Site Planning

Introduces the site planning process including: site analysis and its relationship to building program and site concept, and preparation of site plans. Emphasis is placed on the planning of the physical site through a thorough understanding of process, land use, site constraints and synthesis of ecological, functional and aesthetic considerations in the site planning process. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3004. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to College of Architecture and Planning majors only.

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ENVD-4023 (3) Environmental Impact Assessment

Provides a field-oriented seminar in current environmental impact controversies. Gives attention to history, theory, and application of impact analysis at state levels for designers, land-use planners, and others involved in resource decision making. Prereq., instructor consent. Open to nonmajors on a space available basis, by instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

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ENVD-4233 (3) Environmental Aesthetics

Explores the interdisciplinary field of environmental aesthetics, examining the history of landscape tastes, theoretical approaches to the study of aesthetic responses, and contemporary attempts to incorporate matters of aesthetics in American planning. Emphasizes developing analytical and critical approaches to aesthetics in the public realm.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-4363 (1-6) Special Topics: Physical Factors in Environmental Design

Includes such topics as appropriate technology, public policy and natural hazards, organization of the designing and building process, and physical elements of urban development. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Physical Factors

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ENVD-1104 (3) Introduction to Environmental Design Methods

Explores the forces and conditions that interact to shape the designed environment. It does so through a lecture sequence and parallel set of design exercises introducing students to the theory and practice of environmental design. It develops student understandings of the central role design thinking plays as the unique process used to effect appropriate change in the designed environment. Prereq., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- required for all). Restricted to Environmental Design majors only.

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ENVD-2001 (3) Human Behavior in Design and Planning

Examines reciprocal relationships between people and their built and natural environments, tracing major issues and approaches in design research to understand how people are influenced by the environment and how they can create healthy, just, and livable places. Coreqs., ENVD 1004, 1052. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-2002 (3) Environmental Design Media 1

Using both lectures and drawing exercises, this class examines the traditional representational conventions used by the design professions to depict and describe space, form, pattern and information. Uses a multi-disciplined approach that explores the three basic intentions that inform the marks that designers make: visualization, representation and communication. Prereq., ENVD 1004. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-2003 (3) Ecology and Design

Introduces basic principles and techniques of ecology as they relate to the design and understanding of the built environment. Includes a study of hazards and the impact of modern technology on the natural and built environments. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 1104. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (with min grade C- for all). Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Physical Factors](#)

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ENVD-2052 (3) Introduction to Computers in Planning

Introduces the use of computers in design fields, including applications for word-processing, desktop publishing, graphic creation, and Cad-style design. Aims to provide basic general skills in computer use that are transferable to other computer applications. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-2100 (6) Architecture Studio 1

The first of four architecture studios, this class introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2002. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2110 (6) Environmental Design Studio

This class exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to fundamental design practices common to the disciplines---architecture, landscape architecture, planning, urban design---that share the responsibility for shaping the designed environment. Prereq., ENVD 2002.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2120 (6) Environmental Design Lab - Urban Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 3122, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2130 (6) Environmental Design Studio: Landscape Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of architecture, urban design and landscape design - disciplines that share the responsibility for shaping the designed environment. Prereqs., ENVD 1004 and 1104. Restricted to ARPL majors. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3100 (6) ENVD Studio--Architectural Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3115. Restricted to ARPL students only. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3110 (6) Architecture Studio 1

The first of four upper-division studios introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2110. Restricted to junior/senior ARCH majors.

Program in Environmental Design | Environmental Design | Studios

ENVD-3200 (1-6) Advanced ENVD Studio

Design studio dealing with problems at an intermediate level of complexity: emphasis is on the interaction of form, use, and multiple values and technologies in conjunction with issues and techniques drawn from other content area courses of the curriculum. Recommended prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3220 (6) Planning Studio 2

See ENVD 2120. Prereq., ENVD 2120. Restricted to PLAN majors. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3300 (3-6) Special Topics: Intermediate Design Lab

Design lab exploring new and emerging themes in environmental design. May be repeated up to 18 total credit hours. Prereqs., ARCH 3114, ENVD 3100, 3115. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

Program in Environmental Design | Environmental Design | Studios

ENVD-3310 (6) Architecture Studio 2

The second of the four upper-division studios focuses on concepts of medium-scale building design, siting, and climate. Through a number of design exercises, students learn how these factors help shape buildings. Prereq., ENVD 3110. Formerly ENVD 3210. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3320 (2) Planning Practicum

Supervised practicum in some aspect of urban or regional planning. Prereq., ENVD 3220.

Program in Environmental Design | Environmental Design | Studios

ENVD-4100 (3-6) Advanced Design Lab 1

Design lab exploring new and emerging themes in design. May be repeated up to 18 total credit hours. Prereq., ENVD 3300.

Program in Environmental Design | Environmental Design | Studios

ENVD-4300 (3-6) Advanced Design Lab 2

Design lab exploring new and emerging themes in design. May be repeated up to 12 total credit hours. Prereq., ENVD 4100. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4320 (6) Planning Studio 3

See ENVD 2120. Prereq., ENVD 3300.

Program in Environmental Design | Environmental Design | Studios

ENVD-4340 (4-6) Landscape Design Studio

Studio in landscape design. Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4360 (4-6) Historic Preservation Studio

A design studio exploring emerging issues and practices in historic preservation. Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4420 (3) Senior Capstone Seminar

Advanced seminar focuses on theoretical concerns and practical issues inherent in environmental design and planning. Views concerns and issues in terms of setting, processes, and planning and design outcomes. Provides a critical synthesis of the inherently interdisciplinary nature of planning and design education. Open to planning and design studies seniors only, or by instructor consent. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4440 (6) Landscape Design Studio 2

A preprofessional studio in landscape architecture. Prereq., ENVD 4340.

Program in Environmental Design | Environmental Design | Studios

ENVD-4510 (6) Architecture Studio 3

The third of the four upper-division studios focuses on concepts of program, architectural meaning and human behavior in buildings. Through a number of design exercises, students learn how these factors help shape buildings. Prereq., ENVD 3310. Formerly ENVD 4310. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4550 (4-6) Urban Design Studio

A studio exploring emerging issues and practices Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4710 (6) Architecture Studio 4

The last of the four upper-division studios focuses on concepts of building technology, context and environmental sustainability. Prereq., ENVD 4510. Formerly ENVD 4410. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

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ENVD-2100 (6) Architecture Studio 1

The first of four architecture studios, this class introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2002. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

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ENVD-2110 (6) Environmental Design Studio

This class exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to fundamental design practices common to the disciplines--architecture, landscape architecture, planning, urban design--that share the responsibility for shaping the designed environment. Prereq., ENVD 2002.

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ENVD-2120 (6) Environmental Design Lab - Urban Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 3122, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

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ENVD-2130 (6) Environmental Design Studio: Landscape Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of architecture, urban design and landscape design - disciplines that share the responsibility for shaping the designed environment. Prereqs., ENVD 1004 and 1104. Restricted to ARPL majors. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

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ENVD-2152 (3) Geographic Info Systems

Focuses on construction and use of computer-based information systems to represent and manipulate geographic data. Emphasizes the recording, mapping, and transforming of data for analysis and use by planners. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-3001 (3) Environment and Behavior

Examines the social and behavioral aspects of relationships between people and the designed environment. Gives special attention to antecedent factors (why we have the environments we do), implications of given arrangements for special population groups, and responses to incongruent environments. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Social Factors](#)

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ENVD-3009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 1004 and 1052. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

[Program in Environmental Design](#)
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ENVD-3909 (1-6) Independent Study

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

[Program in Environmental Design](#)
[Environmental Design](#)
[Miscellaneous](#)

ENVD-3919 (1-6) Teaching Assistant

By special arrangement with instructor. Prereq., junior standing and 3.00 GPA. Available for pass/fail credit only.

[Program in Environmental Design](#)
[Environmental Design](#)
[Miscellaneous](#)

ENVD-4009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 2120. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-4909 (1-6) Independent Study

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-4919 (1-6) Teaching Assistant

By special arrangement with instructor. Pass/fail credit only. Prereq., ENVD 3100 and a 3.00 GPA.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-4929 (1-6) Research Assistant

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-4939 (1-6) Internship

By special arrangement with instructor and outside sponsor. Pass/fail credit only. Prereq., ENVD 3100 and a 3.00 GPA.

Program in Environmental Design | Environmental Design | Miscellaneous

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ENVD-3015 (3) Introduction to Historic Preservation

Introduces methods for identifying historic structures and evaluating their materials. Considers techniques for preserving and restoring and legal options for promoting preservation efforts. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#)
[Environmental Design](#)
[Technology and Practice](#)

ENVD-3115 (3) Introduction to Building Materials and Systems

Surveys building methods, materials, and assemblies from the designer's perspective. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#)
[Environmental Design](#)
[Technology and Practice](#)

ENVD-4005 (3) Design and Planning Law

Teaches students how to research the various codes and to draft and pass laws. Covers environmental, water quality, property, zoning, and building codes and laws. Prereq., ENVD 2130.

[Program in Environmental Design](#)
[Environmental Design](#)
[Technology and Practice](#)

ENVD-4035 (3) Solar and Sustainable Design

Introduces aspects of solar technology relevant to the environmental design professions. Includes readings and lectures on the nature of energy limitations, energy needs, and the potential role of solar energy in meeting these needs. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Technology and Practice

ENVD-4365 (1-6) Special Topics: Technology and Practice

Provides an advanced seminar on new technologies and issues of professional practice in the environmental design professions. Prereq., ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Technology and Practice

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ENVD-3002 (3) Design Theory and Methods

The nature of design and systematic methods for improving design. Topics include: nature of design problems; structure of design process; theory of form; problem definition; generating solution ideas; evaluation; roles of form and function. Students use computers without having to learn to program. Open to nonmajors.

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ENVD-3003 (3) Site Planning

Introduces the site planning process including: site analysis and its relationship to building program and site concept, and preparation of site plans. Emphasis is placed on the planning of the physical site through a thorough understanding of process, land use, site constraints and synthesis of ecological, functional and aesthetic considerations in the site planning process. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3004. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to College of Architecture and Planning majors only.

[Program in Environmental Design](#) | [Environmental Design](#) | [Physical Factors](#)

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ENVD-3004 (3) History of Landscape Architecture

Investigates landscape architectural thought from antiquity to the present. Begins with a review of Greek ideals and proceeds - through an appreciation of landscape and nature as essential cultural constituents - with a survey of major themes such as Renaissance Humanism, the Picturesque, and the varieties of Modernism, Neo-Eclecticism and most recent directions in landscape and garden design. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3003. Restricted to College of Architecture and Planning undergrads. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) | [Environmental Design](#) | [History and Theory](#)

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ENVD-3009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 1004 and 1052. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

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ENVD-3015 (3) Introduction to Historic Preservation

Introduces methods for identifying historic structures and evaluating their materials. Considers techniques for preserving and restoring and legal options for promoting preservation efforts. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

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ARCH-3114 (3) History and Theories of Architecture 1

Surveys architecture, landscape architecture, and urban design from 3000 B.C. to A.D. 1400, emphasizing developments in the Western world. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ENVD 3100, 3115. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

[Program in Environmental Design](#)
[Architecture](#)

ARCH-3214 (3) History and Theories of Architecture 2

Surveys architecture, landscape architecture, and urban design from A.D. 1400 to the present, emphasizing developments in the Western world. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

[Program in Environmental Design](#)
[Architecture](#)

ARCH-4010 (3) Architectural Appreciation and Design

Introduces basic processes and principles of architectural design. Provides a basis for understanding and evaluating architecture. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Architectural Engineering (AREN) majors only.

[Program in Environmental Design](#)
[Architecture](#)

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ENVD-3022 (3) Technical Photography

Introduces students to the technical and practical aspects of making photographic images: the workings of the camera and lens, principles of depth of field, black and white film processing, printing, and basic darkroom procedures. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-3052 (3) Introduction to Computer Methods in Environmental Design

Surveys existing and emerging computer methods used in the environmental design professions, with an introduction to computer programming. Open to nonmajors with instructor consent.

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ENVD-3100 (6) ENVD Studio--Architectural Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3115. Restricted to ARPL students only. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-3110 (6) Architecture Studio 1

The first of four upper-division studios introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2110. Restricted to junior/senior ARCH majors.

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ARCH-3114 (3) History and Theories of Architecture 1

Surveys architecture, landscape architecture, and urban design from 3000 B.C. to A.D. 1400, emphasizing developments in the Western world. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ENVD 3100, 3115. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

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ENVD-3115 (3) Introduction to Building Materials and Systems

Surveys building methods, materials, and assemblies from the designer's perspective. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Technology and Practice](#)

ENVD-3122 (3) Research Issues and Methods in Design and Planning

Explores topics of current interest in planning. Looks at the development and social consequences of the neighborhood movement, forms of municipal and regional governments, regional settlement patterns, and new communities. Introduces selected methods from the social sciences used by planners and urban designers. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 2120, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3124 (3) Issues in Planning History

Broadly introduces physical environmental planning in the U.S., examining both historical roots and recent trends in American planning concepts and implementation. Emphasizes an analytical and critical approach to historical and contemporary planning issues, mechanisms, and cases. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 2120, 3122. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-3152 (3) Introduction to Computer Graphics Applications

Explores principles and uses of computer graphics in design. Topics include creation and modification of complex two- and three-dimensional objects; orthographic and perspective views; use of

color; input using mouse and digitizer; output using screen, plotter, matrix printer, and slides; automated aids for form generation and manipulation; and analysis of current and future trends of computer usage for design. May be repeated up to 12 total credit hours. Prereq., ENVD 1052, 1102. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3200 (1-6) Advanced ENVD Studio

Design studio dealing with problems at an intermediate level of complexity: emphasis is on the interaction of form, use, and multiple values and technologies in conjunction with issues and techniques drawn from other content area courses of the curriculum. Recommended prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3212 (3) Color Theory

Illustrates color media techniques for the preparation, composition, and presentation of landscape and built environment drawings. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ARCH-3214 (3) History and Theories of Architecture 2

Surveys architecture, landscape architecture, and urban design from A.D. 1400 to the present, emphasizing developments in the Western world. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

Program in Environmental Design | Architecture

ENVD-3220 (6) Planning Studio 2

See ENVD 2120. Prereq., ENVD 2120. Restricted to PLAN majors. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3252 (3) Computer Graphic Programming

Provides an introductory computer programming course designed to teach the capabilities of a computer in providing graphic representations of environments, including buildings. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3300 (3-6) Special Topics: Intermediate Design Lab

Design lab exploring new and emerging themes in environmental design. May be repeated up to 18 total credit hours. Prereqs., ARCH 3114, ENVD 3100, 3115. Prerequisites: Restricted to

Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3310 (6) Architecture Studio 2

The second of the four upper-division studios focuses on concepts of medium-scale building design, siting, and climate. Through a number of design exercises, students learn how these factors help shape buildings. Prereq., ENVD 3110. Formerly ENVD 3210. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-3320 (2) Planning Practicum

Supervised practicum in some aspect of urban or regional planning. Prereq., ENVD 3220.

Program in Environmental Design | Environmental Design | Studios

ENVD-3352 (3) Architectural Computer Media

Introduces the integration of computing and the architectural design process and related representational tasks. Studies common computer-aided design programs, emphasizing two- and three-dimensional and animation techniques. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3909 (1-6) Independent Study

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-3919 (1-6) Teaching Assistant

By special arrangement with instructor. Prereq., junior standing and 3.00 GPA. Available for pass/fail credit only.

Program in Environmental Design | Environmental Design | Miscellaneous

ENVD-4005 (3) Design and Planning Law

Teaches students how to research the various codes and to draft and pass laws. Covers environmental, water quality, property, zoning, and building codes and laws. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Technology and Practice

ENVD-4009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 2120. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

Program in Environmental Design | Environmental Design | Miscellaneous

ARCH-4010 (3) Architectural Appreciation and Design

Introduces basic processes and principles of architectural design. Provides a basis for understanding and evaluating architecture. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Architectural Engineering (AREN) majors only.

Program in Environmental Design | Architecture

ENVD-4012 (3) Imagination and Creativity

Offers a seminar on imagination and creativity in environmental design. Students research and prepare a class presentation and paper on a topic of interest. Open to nonmajors at all levels.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4023 (3) Environmental Impact Assessment

Provides a field-oriented seminar in current environmental impact controversies. Gives attention to history, theory, and application of impact analysis at state levels for designers, land-use planners, and others involved in resource decision making. Prereq., instructor consent. Open to nonmajors on a space available basis, by instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-4031 (3) Thinking Like a Mountain: A New Land Ethic

Critically reviews and analyzes land use policies, the ethics and economics of air and water pollution, regional sustainability, and resource management. Includes critical evaluation of empirical methodologies, and criteria of cultural and social equity. Prereq., junior or senior standing in the college.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-4035 (3) Solar and Sustainable Design

Introduces aspects of solar technology relevant to the environmental design professions. Includes readings and lectures on the nature of energy limitations, energy needs, and the potential role of

solar energy in meeting these needs. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Technology and Practice

ENVD-4052 (3) Digital Presentation and Portfolio

Introductory course creating interactive web sites. Covers use of Hypertext Markup Language (HTML) and Flash to create linked pages containing text, images animations, menus, and buttons. Covers principles of site navigation, page layout, and graphic design for designers and planners. Credit not granted for this course and ENVD 2352. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4092 (3) Improving Imaging Ability

Offers an advanced course dealing with theories of imaging and methods of improving imaging in the design process. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4100 (3-6) Advanced Design Lab 1

Design lab exploring new and emerging themes in design. May be repeated up to 18 total credit hours. Prereq., ENVD 3300.

Program in Environmental Design | Environmental Design | Studios

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ENVD-4112 (3) Architectural Graphics 1

Illustrates techniques of graphics communication and presentation for architectural design. Includes advanced delineation and use of color. Prereq., ENVD 2130.

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ENVD-4114 (3) History of American Architecture and Urbanism

Surveys architecture, landscape architecture, urban design, and planning in the U.S. from ca. 1600 to the present. Prereq., ENVD 2130.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-4122 (3) Advanced Technical Photography

Focuses on working with a variety of alternative photographic processes intended to give students an array of photographic techniques to incorporate into studio course presentations and portfolio work. Processes include hand-applied color to black and white images, using two or more negatives to produce black and white combination prints, shooting color slides to produce graphic arts, high-contrast black and white prints, and documentary photography of Colorado architecture and urban landscapes using color slide film. Students must provide their own 35mm SLR camera. Prereq., ENVD 3022 or ARTS 2191 or instructor consent.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-4152 (3) Computer Graphic Applications

Introduces the mechanics of entering 2-D images and 3-D objects into the computer. Once entered, graphics are interactively rotated in space, walked through, and displayed in perspective from any position. Also covers the mechanics of other computer programs allowing additional manipulation of images and objects. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4192 (3) Improving Imaging Ability 2

Offers an advanced course dealing with theories of imaging and methods of improving imaging in the design process. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4212 (3) Architectural Graphics 2

Covers development of an architectural set of construction documents combined with job administration, field observation, and guest speakers from related construction and architectural disciplines. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4233 (3) Environmental Aesthetics

Explores the interdisciplinary field of environmental aesthetics, examining the history of landscape tastes, theoretical approaches to the study of aesthetic responses, and contemporary attempts to incorporate matters of aesthetics in American planning. Emphasizes developing analytical and critical approaches to aesthetics in the public realm.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-4300 (3-6) Advanced Design Lab 2

Design lab exploring new and emerging themes in design. May be repeated up to 12 total credit hours. Prereq., ENVD 4100. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4311 (3) Housing Policies and Practices

A seminar providing students with a descriptive knowledge and analytical understanding of the use and development of residential settings in different political economies, globally divided into advanced capitalist nations, collectivist economies, and the third world. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-4314 (3) Architectural Theory

Surveys, through lectures and readings, the major historical developments and contemporary directions in architectural theory. Prereqs., ARCH 3114 and ARCH 3214. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4320 (6) Planning Studio 3

See ENVD 2120. Prereq., ENVD 3300.

Program in Environmental Design | Environmental Design | Studios

ENVD-4322 (1-6) Special Topics: Graphics

Provides an advanced seminar on special issues in design communications. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4340 (4-6) Landscape Design Studio

Studio in landscape design. Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4352 (1-6) Special Topics: Computer Methods

Topics include animation and environmental simulation, computational methods of technical evaluation and optimization, and computational mapping and analysis. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-4360 (4-6) Historic Preservation Studio

A design studio exploring emerging issues and practices in historic preservation. Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4361 (1-6) Special Topics: Social Factors in Design

Addresses variable topics in the relationship of human experience and behavior to the built environment, e.g., social research methods in environmental design. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-4363 (1-6) Special Topics: Physical Factors in Environmental Design

Includes such topics as appropriate technology, public policy and natural hazards, organization of the designing and building process, and physical elements of urban development. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-4364 (1-6) Special Topics: History and Historiography of Environmental Design

Provides an advanced seminar on history and historiography of environmental design, e.g., American dwellings. May be repeated for credit by petition. Prereq., ENVD 2130.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-4365 (1-6) Special Topics: Technology and Practice

Provides an advanced seminar on new technologies and issues of professional practice in the environmental design professions. Prereq., ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Technology and Practice

ENVD-4420 (3) Senior Capstone Seminar

Advanced seminar focuses on theoretical concerns and practical issues inherent in environmental design and planning. Views concerns and issues in terms of setting, processes, and planning and design outcomes. Provides a critical synthesis of the inherently interdisciplinary nature of planning and design education. Open to planning and design studies seniors only, or by instructor consent. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Studios

ENVD-4440 (6) Landscape Design Studio 2

A preprofessional studio in landscape architecture. Prereq., ENVD 4340.

Program in Environmental Design | Environmental Design | Studios

ENVD-4510 (6) Architecture Studio 3

The third of the four upper-division studios focuses on concepts of program, architectural meaning and human behavior in buildings. Through a number of design exercises, students learn how these factors help shape buildings. Prereq., ENVD 3310. Formerly ENVD 4310. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4550 (4-6) Urban Design Studio

A studio exploring emerging issues and practices Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4710 (6) Architecture Studio 4

The last of the four upper-division studios focuses on concepts of building technology, context and environmental sustainability. Prereq., ENVD 4510. Formerly ENVD 4410. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4764 (1-6) Special Topics: Theory and Criticism in Environmental Design

Provides an advanced seminar on theory and criticism in environmental design, e.g., architecture now and introduction to design theory and criticism. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

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ENVD-4794 (3) History of Urban Design and Planning

Examines history of European and American planning and urban design in the late 19th and 20th centuries. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#)
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ENVD-4909 (1-6) Independent Study

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

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ENVD-4919 (1-6) Teaching Assistant

By special arrangement with instructor. Pass/fail credit only. Prereq., ENVD 3100 and a 3.00 GPA.

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ENVD-4929 (1-6) Research Assistant

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

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ENVD-4939 (1-6) Internship

By special arrangement with instructor and outside sponsor. Pass/fail credit only. Prereq., ENVD 3100 and a 3.00 GPA.

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Courses

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EDUC-2020 (1) Step 1: Inquiry Approaches to Teaching

Invites science and mathematics students to explore teaching as a career by providing first-hand experiences teaching science/math lessons in local elementary classrooms. Introduces theory and practice necessary to design and deliver excellent instruction. Master teachers provide ongoing support and feedback. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local elementary school. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

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EDUC-2030 (1) Step 2: Inquiry-Based Lesson Design

Builds on EDUC 2020 and further develops lesson design and inquiry-based teaching practice. Offers opportunity to explore teaching career and learn about middle school culture. Master teacher provides support as students design and deliver lessons in middle school classrooms. Emphasizes assessment of student learning. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local middle school. Prereq., EDUC 2020.

[School of Education](#)
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EDUC-2050 (1) Step into Humanities Teaching

Invites students in humanities and social sciences to explore teaching as a career by providing first-hand experiences teaching in local elementary and middle schools. Introduces theory and practice necessary to design and deliver excellent instruction. Students receive ongoing support and feedback from a classroom teacher. Meets weekly on CU campus (1.25 hours/week). Involves additional visits to local schools.

[School of Education](#)
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EDUC-2125 (3) History of American Public Education

Provides overview to evolution of American public schools by exploring major reform efforts from the common school movement to present. Considers contentious values, important players, and roots of school structures. Examines both what intellectuals were thinking about public education and how ordinary people experienced schools. Assesses how differences in race, class, ethnicity, gender, and power shape public schools.

School of Education | Education | General Education

EDUC-2150 (3) Education in Film

Provides opportunities to view and analyze how facets of education are represented (or misrepresented) in film. Considers narratives constructed about education and how those stories fuel popular conceptions of and assumptions about students, teachers, and schools. Examines how issues of race, class, and gender are embedded in how films represent schools, teachers, students, and communities.

School of Education | Education | General Education

EDUC-2400 (3) Cultural Diversity and Awareness

Enhances students' self-awareness in a variety of educational and cultural settings. Investigates self within a cultural context, inviting students to engage more deeply with their cultural assumptions and lenses, as well as the cultural practices and beliefs of other distinct groups. Explores themes relating to diversity through works of fiction, cultural contexts, contemplative practices, poetry, music and experiential activities.

School of Education | Education | General Education

EDUC-2625 (3) Teaching English as a Second Language

Exposes students to strategies used to teach English as a second or foreign language. Covers both theoretical and applied aspects of language learning and teaching. Exposes students to techniques, activities, strategies and resources to plan instruction for students learning English as a second language. Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

School of Education | Education | General Education

EDUC-2800 (1-3) Special Topics

Designed to meet needs of students with topics of interest. May be repeated up to 12 credit hours.

School of Education | Education | General Education

EDUC-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2920. May be repeated up to 6 total credit hours. Same as LDSP 2910.

School of Education Education General Education

EDUC-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as INVS 2919. Approved for arts and sciences core curriculum: human diversity.

School of Education Education General Education

EDUC-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2910. May be repeated up to 6 total credit hours. Same as LDSP 2920.

School of Education Education General Education

EDUC-3013 (3-4) School and Society

Introduces students - both future teachers and those simply interested in education - to pressing issues surrounding education within the United States. The course reveals the complex relationship between schools and the larger society of which they are a part. Examines issues of diversity and equity from different disciplinary lenses, including history, philosophy, sociology and anthropology. Approved for arts and sciences core curriculum: contemporary societies or human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education Education General Education

EDUC-3570 (3) Learning With Technology In and Out of School

Examines ways digital media are changing the way young people learn, play, make friends, and participate in civic life. Studies widely implemented digital tools intended to support literary, math, and science learning of children ages 4-18. Involves brief internship (5 hours outside class) and design projects that integrate these tools to transform in either a classroom or after-school program.

School of Education Education General Education

EDUC-3621 (1-3) Art for the Elementary Teacher

Introduces elementary education students to art education. Introduces many visual art techniques, art media, and processes used in art education. The class includes hands-on studio art

experiences in a format that supports subjects such as literature, writing, music, and social studies. Emphasizes the role of art education and materials in supporting the artistic development and visual literacy of children. Prereq., completion of 30 hours of course work. Restricted to Education majors.

School of Education | Education | Elementary Education

EDUC-4015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace corps and Volunteer Agencies. Same as EDUC 5015.

School of Education | Education | General Education

EDUC-4023 (3-5) Differentiating Instruction in Diverse Secondary Classrooms

Focuses on teaching culturally and linguistically diverse secondary school students, special education students, and differentiation in the secondary classroom. Includes hands-on experiences in secondary school settings. Restricted to students admitted to the secondary or K-12 music teacher education program. Credit not granted for this course and EDUC 4351. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

School of Education | Education | Secondary Education

EDUC-4050 (3) Knowing and Learning in Mathematics and Science

Explores current theories of learning in mathematics and science at the secondary level. This course focuses on the interrelation between learners' conceptual and sociocultural development. Students examine their own assumptions about learning, and critically examine the needs of a diverse student population in the classroom. Prerequisites: Restricted to AMEN, ASTR, BOHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

School of Education | Education | Secondary Education

EDUC-4060 (3) Classroom Interactions

Students design and implement instructional activities informed by what it means to know and learn mathematics and science, and then evaluate the outcomes of those activities on the basis of classroom artifacts. Students examine how content and pedagogy combine to make effective teaching. Same as EDUC 5060. Prerequisites: Restricted to School of Education (EDUC), Mathematics-Secondary Education (EDMA) or Science-Secondary Education (EDSC) majors only.

School of Education | Education | Secondary Education

EDUC-4112 (3) Educational Psychology and Adolescent Development

Analyzes fundamental psychological concepts underlying classroom instruction, as well as adolescent growth and development. Same as PSYC 4114. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education | Education | Secondary Education

EDUC-4125 (3) Secondary World Language Methods

Presents and discusses issues in secondary school curriculum, instruction, and classroom management as they play out in world language classroom. Examines, analyzes, and evaluates a variety of teaching strategies, their effectiveness for students, and teacher dispositions to facilitate learning. Includes in-school experiences. Restricted to students admitted to the secondary teacher education program. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

School of Education | Education | Secondary Education

EDUC-4135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course.

School of Education | Education | Graduate Education

EDUC-4161 (1-3) Children's Literature

Addresses reading and evaluation of books, children's, interests, authors and illustrators, folk literature, multicultural literature, modern fanciful tales, and trends.

School of Education | Education | General Education

EDUC-4222 (3) Language Study for Educators

Focuses on the nature of linguistic development and performance. Examines works that reflect a range of scholarly approaches to language study, explores language use both in and out of school, takes up the relationships between language practices and power, and considers implications for classroom teaching. Same as EDUC 5222.

School of Education | Education | General Education

EDUC-4232 (3) Language and Literacy across the Curriculum

Explores the relationship between language and learning with the goal of developing teaching practices that engage students in using language as a tool for understanding and constructing meaning across the curriculum. Explores how language/literacy take on different forms and functions in different social contexts and academic disciplines. Restricted to students admitted to the secondary teacher education program. Same as EDUC 5235. Prerequisites: Restricted to undergraduate Science-Secondary Education (EDSC) or Mathematics-Secondary Education (EDMA) majors only.

School of Education | Education | Secondary Education

EDUC-4240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses. Prerequisites: Restricted to Graduate Students only.

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EDUC-2020 (1) Step 1: Inquiry Approaches to Teaching

Invites science and mathematics students to explore teaching as a career by providing first-hand experiences teaching science/math lessons in local elementary classrooms. Introduces theory and practice necessary to design and deliver excellent instruction. Master teachers provide ongoing support and feedback. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local elementary school. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

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EDUC-2030 (1) Step 2: Inquiry-Based Lesson Design

Builds on EDUC 2020 and further develops lesson design and inquiry-based teaching practice. Offers opportunity to explore teaching career and learn about middle school culture. Master teacher provides support as students design and deliver lessons in middle school classrooms. Emphasizes assessment of student learning. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local middle school. Prereq., EDUC 2020.

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EDUC-2050 (1) Step into Humanities Teaching

Invites students in humanities and social sciences to explore teaching as a career by providing first-hand experiences teaching in local elementary and middle schools. Introduces theory and practice necessary to design and deliver excellent instruction. Students receive ongoing support and feedback from a classroom teacher. Meets weekly on CU campus (1.25 hours/week). Involves additional visits to local schools.

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EDUC-2125 (3) History of American Public Education

Provides overview to evolution of American public schools by exploring major reform efforts from the common school movement to present. Considers contentious values, important players, and roots of school structures. Examines both what intellectuals were thinking about public education and how ordinary people experienced schools. Assesses how differences in race, class, ethnicity, gender, and power shape public schools.

School of Education | Education | General Education

EDUC-2150 (3) Education in Film

Provides opportunities to view and analyze how facets of education are represented (or misrepresented) in film. Considers narratives constructed about education and how those stories fuel popular conceptions of and assumptions about students, teachers, and schools. Examines how issues of race, class, and gender are embedded in how films represent schools, teachers, students, and communities.

School of Education | Education | General Education

EDUC-2400 (3) Cultural Diversity and Awareness

Enhances students' self-awareness in a variety of educational and cultural settings. Investigates self within a cultural context, inviting students to engage more deeply with their cultural assumptions and lenses, as well as the cultural practices and beliefs of other distinct groups. Explores themes relating to diversity through works of fiction, cultural contexts, contemplative practices, poetry, music and experiential activities.

School of Education | Education | General Education

EDUC-2625 (3) Teaching English as a Second Language

Exposes students to strategies used to teach English as a second or foreign language. Covers both theoretical and applied aspects of language learning and teaching. Exposes students to techniques, activities, strategies and resources to plan instruction for students learning English as a second language. Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

School of Education | Education | General Education

EDUC-2800 (1-3) Special Topics

Designed to meet needs of students with topics of interest. May be repeated up to 12 credit hours.

School of Education | Education | General Education

EDUC-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2920. May be repeated up to 6 total credit hours. Same as LDSP 2910.

School of Education Education General Education

EDUC-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as INVS 2919. Approved for arts and sciences core curriculum: human diversity.

School of Education Education General Education

EDUC-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2910. May be repeated up to 6 total credit hours. Same as LDSP 2920.

School of Education Education General Education

EDUC-3013 (3-4) School and Society

Introduces students - both future teachers and those simply interested in education - to pressing issues surrounding education within the United States. The course reveals the complex relationship between schools and the larger society of which they are a part. Examines issues of diversity and equity from different disciplinary lenses, including history, philosophy, sociology and anthropology. Approved for arts and sciences core curriculum: contemporary societies or human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education Education General Education

EDUC-3570 (3) Learning With Technology In and Out of School

Examines ways digital media are changing the way young people learn, play, make friends, and participate in civic life. Studies widely implemented digital tools intended to support literacy, math, and science learning of children ages 4-18. Involves brief internship (5 hours outside class) and design projects that integrate these tools to transform in either a classroom or after-school program.

School of Education Education General Education

EDUC-4015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum,

and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace corps and Volunteer Agencies. Same as EDUC 5015.

School of Education | Education | General Education

EDUC-4161 (1-3) Children's Literature

Addresses reading and evaluation of books, children's, interests, authors and illustrators, folk literature, multicultural literature, modern fanciful tales, and trends.

School of Education | Education | General Education

EDUC-4222 (3) Language Study for Educators

Focuses on the nature of linguistic development and performance. Examines works that reflect a range of scholarly approaches to language study, explores language use both in and out of school, takes up the relationships between language practices and power, and considers implications for classroom teaching. Same as EDUC 5222.

School of Education | Education | General Education

EDUC-4240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | General Education

EDUC-4312 (3) Perspectives on Science

Explores contemporary ideas and issues in the history, philosophy, and sociology of science education and science, science as a social and cultural activity, and how contemporary issues in science relate to and impact educational practice. Same as EDUC 5315.

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EDUC-4318 (3) The Nature of "English Language Arts"

Considers historical and ongoing controversies concerning the nature of "English" as an academic field of study and of "English Language arts" as a school subject. Integrates understandings of subject-matter specialization, of approaches to teaching this contested subject, and of the diverse learners that teachers seek to prepare for 21st century literacies. EDUC 4318 and 5318 are the same course.

School of Education | Education | General Education

EDUC-4411 (3) Educational Psychology for Elementary Schools

Integrates theories and ideas from elementary school child development and educational psychology. Explores theories of learning and child development and considers implications for teaching motivation, and academic achievement. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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EDUC-4425 (3) Introduction to Bilingual/Multicultural Education

Provides a comprehensive survey of bilingual-multicultural education programs for language minority students. Includes an overview of the history and legislation related to bilingual education and English as a second language. Presents various models, philosophies, and theoretical underpinnings of bilingual education and ESL. Same as EDUC 5425.

School of Education | Education | General Education

EDUC-4580 (3) Physics and Everyday Thinking

Engages non-physics majors in hands-on, minds-on activities and labs to investigate the physical world, the nature of science, and how science knowledge is constructed. This introductory course is especially relevant for future elementary and middle school teachers although it will meet the needs of most non-physics and non-science majors. Physics content focuses on interactions and energy. Additional assignments completed at 5000-level. Same as EDUC 5580.

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EDUC-4610 (1-3) Math and Science Education

Introduces learning theory and teaching practices for mathematics and science learning assistants. Presents theoretical issues such as conceptual development, questioning techniques, cooperative learning, nature of math/science, and argumentation in mathematics and science. Restricted to students admitted to the Learning Assistant program.

School of Education | Education | General Education

EDUC-4716 (3) Basic Statistical Methods

Introduces descriptive statistics including graphic presentation of data, measures of central tendency and variability, correlation and prediction, and basic inferential statistics, including the t-test.

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EDUC-4800 (1-9) Special Topics

Designed to meet needs of students with topics of pertinent interest. May be repeated up to 18 total hours.

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EDUC-2020 (1) Step 1: Inquiry Approaches to Teaching

Invites science and mathematics students to explore teaching as a career by providing first-hand experiences teaching science/math lessons in local elementary classrooms. Introduces theory and practice necessary to design and deliver excellent instruction. Master teachers provide ongoing support and feedback. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local elementary school. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

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EDUC-2030 (1) Step 2: Inquiry-Based Lesson Design

Builds on EDUC 2020 and further develops lesson design and inquiry-based teaching practice. Offers opportunity to explore teaching career and learn about middle school culture. Master teacher provides support as students design and deliver lessons in middle school classrooms. Emphasizes assessment of student learning. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local middle school. Prereq., EDUC 2020.

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EDUC-2050 (1) Step into Humanities Teaching

Invites students in humanities and social sciences to explore teaching as a career by providing first-hand experiences teaching in local elementary and middle schools. Introduces theory and practice necessary to design and deliver excellent instruction. Students receive ongoing support and feedback from a classroom teacher. Meets weekly on CU campus (1.25 hours/week). Involves additional visits to local schools.

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EDUC-2125 (3) History of American Public Education

Provides overview to evolution of American public schools by exploring major reform efforts from the common school movement to present. Considers contentious values, important players, and roots of school structures. Examines both what intellectuals were thinking about public education and how ordinary people experienced schools. Assesses how differences in race, class, ethnicity, gender, and power shape public schools.

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EDUC-2150 (3) Education in Film

Provides opportunities to view and analyze how facets of education are represented (or misrepresented) in film. Considers narratives constructed about education and how those stories fuel popular conceptions of and assumptions about students, teachers, and schools. Examines how issues of race, class, and gender are embedded in how films represent schools, teachers, students, and communities.

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EDUC-2400 (3) Cultural Diversity and Awareness

Enhances students' self-awareness in a variety of educational and cultural settings. Investigates self within a cultural context, inviting students to engage more deeply with their cultural assumptions and lenses, as well as the cultural practices and beliefs of other distinct groups. Explores themes relating to diversity through works of fiction, cultural contexts, contemplative practices, poetry, music and experiential activities.

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EDUC-2625 (3) Teaching English as a Second Language

Exposes students to strategies used to teach English as a second or foreign language. Covers both theoretical and applied aspects of language learning and teaching. Exposes students to techniques, activities, strategies and resources to plan instruction for students learning English as a second language. Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

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EDUC-2800 (1-3) Special Topics

Designed to meet needs of students with topics of interest. May be repeated up to 12 credit hours.

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EDUC-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2920. May be repeated up to 6 total credit hours. Same as LDSP 2910.

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EDUC-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as INVS 2919. Approved for arts and sciences core curriculum: human diversity.

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EDUC-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2910. May be repeated up to 6 total credit hours. Same as LDSP 2920.

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EDUC-3013 (3-4) School and Society

Introduces students - both future teachers and those simply interested in education - to pressing issues surrounding education within the United States. The course reveals the complex relationship between schools and the larger society of which they are a part. Examines issues of diversity and equity from different disciplinary lenses, including history, philosophy, sociology and anthropology. Approved for arts and sciences core curriculum: contemporary societies or human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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EDUC-3570 (3) Learning With Technology In and Out of School

Examines ways digital media are changing the way young people learn, play, make friends, and participate in civic life. Studies widely implemented digital tools intended to support literary, math, and science learning of children ages 4-18. Involves brief internship (5 hours outside class) and design projects that integrate these tools to transform in either a classroom or after-school program.

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EDUC-3621 (1-3) Art for the Elementary Teacher

Introduces elementary education students to art education. Introduces many visual art techniques, art media, and processes used in art education. The class includes hands-on studio art experiences in a format that supports subjects such as literature, writing, music, and social studies. Emphasizes the role of art education and materials in supporting the artistic development and visual literacy of children. Prereq., completion of 30 hours of course work. Restricted to Education majors.

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EDUC-3621 (1-3) Art for the Elementary Teacher

Introduces elementary education students to art education. Introduces many visual art techniques, art media, and processes used in art education. The class includes hands-on studio art experiences in a format that supports subjects such as literature, writing, music, and social studies. Emphasizes the role of art education and materials in supporting the artistic development and visual literacy of children. Prereq., completion of 30 hours of course work. Restricted to Education majors.

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EDUC-4311 (3) Children's Literature and Literacy Engagement in Elementary Schools

Prepares teacher education candidates for teaching children's literature in elementary schools. Participants will understand theoretical and developmental processes associated with literary learning, methods for teaching literature in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards that foster such processes. Restricted to students admitted to the elementary education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

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EDUC-4321 (4-5) Integrated Reading and Writing for Elementary Schools

Participants will engage theories and processes of literacy learning, reading and writing development, and equity-oriented teaching. Students will learn, develop, and enact instructional strategies and lessons to support all students' successful participation in a range of multimodal literacy practices embedded in reading and writing instruction in elementary classrooms. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

[School of Education](#) [Education](#) [Elementary Education](#)

EDUC-4331 (3) Elementary Social Studies Methods

Prepares teacher education candidates for teaching social studies in a social justice and equity context. Participants will understand theoretical and developmental processes associated with social studies learning, culturally responsive teaching pedagogy in social studies, methods for teaching social studies in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | Elementary Education

EDUC-4341 (3) Elementary Reading Assessment and Instruction

Builds on knowledge and teaching practices introduced in EDUC 4321. Addresses five critical components of reading. Refines understanding of research-based practices for diagnostic assessments and intensive intervention teaching strategies for elementary age learners. Prepares candidates to deliver a comprehensive reading curriculum in the elementary grades. Prereq., EDUC 4321. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | Elementary Education

EDUC-4351 (3-5) Differentiating Instruction in Diverse Elementary Classrooms

Focuses on teaching culturally and linguistically diverse elementary school students, special education students, and differentiation in the elementary classroom. Includes hands-on experiences in elementary school settings. Restricted to students admitted to the elementary teacher education program. Coreqs., EDUC 5205 and 5215. Credit not granted for this course and EDUC 4023. Prerequisites: Restricted to Elementary (EDEL) or Music (EDMU) Education majors only.

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EDUC-5205 (3) Elementary Mathematics Theory and Methods

Provides pre-service teachers opportunities to explore contemporary theories of learning, curriculum development, and pedagogical strategies pertaining to teaching elementary-level mathematics. Blends exploration in mathematical content with development of sophisticated mathematical models for teaching. Coreqs., EDUC 4351 and 5215. Restricted to elementary teacher education students. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | Elementary Education

EDUC-5215 (3) Elementary Science Theory and Methods

Provides pre-service elementary teachers opportunities to explore contemporary theories of learning, curriculum development, pedagogical strategies, and assessment. Blends scientific content, pedagogy, and practical applications. Coreqs., EDUC 4351 and 5205. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

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EDUC-4023 (3-5) Differentiating Instruction in Diverse Secondary Classrooms

Focuses on teaching culturally and linguistically diverse secondary school students, special education students, and differentiation in the secondary classroom. Includes hands-on experiences in secondary school settings. Restricted to students admitted to the secondary or K-12 music teacher education program. Credit not granted for this course and EDUC 4351. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDJU, EDSP, EDSS or MMED majors only.

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EDUC-4050 (3) Knowing and Learning in Mathematics and Science

Explores current theories of learning in mathematics and science at the secondary level. This course focuses on the interrelation between learners' conceptual and sociocultural development. Students examine their own assumptions about learning, and critically examine the needs of a diverse student population in the classroom. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

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EDUC-4060 (3) Classroom Interactions

Students design and implement instructional activities informed by what it means to know and learn mathematics and science, and then evaluate the outcomes of those activities on the basis of classroom artifacts. Students examine how content and pedagogy combine to make effective teaching. Same as EDUC 5060. Prerequisites: Restricted to School of Education (EDUC), Mathematics-Secondary Education (EDMA) or Science-Secondary Education (EDSC) majors only.

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EDUC-4112 (3) Educational Psychology and Adolescent Development

Analyzes fundamental psychological concepts underlying classroom instruction, as well as adolescent growth and development. Same as PSYC 4114. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education | Education | Secondary Education

EDUC-4125 (3) Secondary World Language Methods

Presents and discusses issues in secondary school curriculum, instruction, and classroom management as they play out in world language classroom. Examines, analyzes, and evaluates a variety of teaching strategies, their effectiveness for students, and teacher dispositions to facilitate learning. Includes in-school experiences. Restricted to students admitted to the secondary teacher education program. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

School of Education | Education | Secondary Education

EDUC-4232 (3) Language and Literacy across the Curriculum

Explores the relationship between language and learning with the goal of developing teaching practices that engage students in using language as a tool for understanding and constructing meaning across the curriculum. Explores how language/literacy take on different forms and functions in different social contexts and academic disciplines. Restricted to students admitted to the secondary teacher education program. Same as EDUC 5235. Prerequisites: Restricted to undergraduate Science-Secondary Education (EDSC) or Mathematics-Secondary Education (EDMA) majors only.

School of Education | Education | Secondary Education

EDUC-4295 (3) Reading and Literacy in the Secondary Classroom

Examines ways in which adolescents develop literacy through reading, writing, speaking, viewing, and listening. Students learn to plan and organize literacy instruction based on ongoing assessment, to draw on and develop learner's linguistic skills related to reading, to support learner's reading comprehension skills, and to support their learning through oral language development. Prerequisites: Restricted to undergraduate English - Secondary Education (EDEN) or English - Secondary Education (EDSS) majors only.

School of Education | Education | Secondary Education

EDUC-4342 (3) Composition for Teachers

Fosters understandings of diverse students' writing processes and the development of a repertoire of research-based teaching practices. Emphasizes writing as a tool for both developing and communicating understandings across a range of settings. Restricted to students admitted to the English or Social Studies teacher education program. Same as EDUC 5345. Prerequisites: Restricted to undergraduate English - Secondary Education (EDEN) or English - Secondary Education (EDSS) majors only.

School of Education | Education | Secondary Education



EDUC-4015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace corps and Volunteer Agencies. Same as EDUC 5015.

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EDUC-4023 (3-5) Differentiating Instruction in Diverse Secondary Classrooms

Focuses on teaching culturally and linguistically diverse secondary school students, special education students, and differentiation in the secondary classroom. Includes hands-on experiences in secondary school settings. Restricted to students admitted to the secondary or K-12 music teacher education program. Credit not granted for this course and EDUC 4351. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

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EDUC-4050 (3) Knowing and Learning in Mathematics and Science

Explores current theories of learning in mathematics and science at the secondary level. This course focuses on the interrelation between learners' conceptual and sociocultural development. Students examine their own assumptions about learning, and critically examine the needs of a diverse student population in the classroom. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

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EDUC-4060 (3) Classroom Interactions

Students design and implement instructional activities informed by what it means to know and learn mathematics and science, and then evaluate the outcomes of those activities on the basis of classroom artifacts. Students examine how content and pedagogy combine to make effective teaching. Same as EDUC 5060. Prerequisites: Restricted to School of Education (EDUC), Mathematics-Secondary Education (EDMA) or Science-Secondary Education (EDSC) majors only.

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EDUC-4112 (3) Educational Psychology and Adolescent Development

Analyzes fundamental psychological concepts underlying classroom instruction, as well as adolescent growth and development. Same as PSYC 4114. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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EDUC-4135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course.

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EDUC-4460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for those interested in physics, teaching, and education research. Prereqs., PHYS 3210 and 3310 or instructor consent. EDUC 4460 and 5460 are the same course. Same as PHYS 4460 and 5460.

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EDUC-4811 (3-4) Teaching and Learning Biology

Provides an introduction to recent research into student learning on the conceptual foundations of modern biology, together with pedagogical methods associated with effective instruction and its evaluation. Students will be involved in active research into conceptual and practical issues involved in biology education, methods to discover student preconceptions, and the design, testing and evaluation of various instructional interventions. Same as MCDB 4811 and EDUC 6811.

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EDUC-5005 (3) Advanced Social Foundations of Education

Critically examines the intellectual and political forces that shape the aims, policies, and practices of K-12 education in the United States, emphasizing the period following the Brown v. The Board of Education decision in 1954. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

School of Education | Education | Graduate Education

EDUC-5015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace Corps and Volunteer Agencies. Same as EDUC 4015.

School of Education | Education | Graduate Education

EDUC-5035 (3) Proseminar: Parent and Community Involvement

Focuses on models and strategies for improving parent and community involvement in the schools. Discusses administrative concerns, such as parent advisory councils, and instructional concerns, such as helping children with school assignments.

School of Education | Education | Graduate Education

EDUC-5060 (3) Classroom Interactions

Same as EDUC 4060. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

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EDUC-5065 (3) Curriculum Theories

Examines four central curricular traditions: progressive; conservative; radical; and spiritual. Highlights the strengths and weaknesses of various writers within each tradition with attention paid to the conceptual features and the practical implications of each educational view. Encourages students to examine their own educational assumptions.

School of Education | Education | Graduate Education

EDUC-5070 (3) Spirituality and Religion in Education

Examines features of religion, spirituality, and a liberal arts education, so as to further understand the constitutional, historical and cultural constraints on, and acceptable approaches to the study of religion and spirituality in American education. Specifically explores aspects of a contemplative orientation and the degree to which such an orientation should/can be pursued in K-12 public and higher education. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5075 (3) Sociology in Education

In-depth analysis of theories and concepts in sociology and education. Evolution of curriculum, organization, and enrollment characteristics of American schools. Schooling, class, culture, gender, stratification, and educational reform in light of paradigmatic change in theories and concepts of sociology.

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EDUC-5085 (3) History of American Education

Highlights social and intellectual history perspectives of American educational history, major reform movements from the 19th century to Dewey, and assessment of how differences of race, class, ethnicity, religion, power, and gender affected American education. Prerequisites: Restricted to Graduate Students only.

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EDUC-5105 (3) Teaching for Understanding and Equity

Addresses perspectives and evidence-based teaching practices that promote equity and access to conceptual understanding. Introduces the knowledge base on effective and socially just teaching practices, and the theories and research that support these practices. Explores the impact of theory and research on classroom instruction.

School of Education | Education | Graduate Education

EDUC-5115 (3) Issues in School Change and Reform

Examines recent developments in teaching, and trends in the philosophy and practice of education. Focuses special attention on a variety of issues central to school reform.

School of Education | Education | Graduate Education

EDUC-5135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5145 (3) Gender, Literacy, and the K-12 Classroom

Explores and critiques various conceptions of gender within popular and scholarly publications that have influenced how gender is approached in classrooms. Builds a theoretical stance toward

gender that supports equity, engagement and achievement for all children and youth. Discusses teaching strategies that thoughtfully take into account gender identities and equity.

School of Education | Education | Graduate Education

EDUC-5165 (3) Children's Literature

Involves reading and evaluation of picture books, and emphasizes children's interests, authors and illustrators, multicultural literature, the components of narrative, and the features of illustrations. Examines connections between children's literature and children's development as writers.

School of Education | Education | Graduate Education

EDUC-5222 (3) Language Study for Educators

Same as EDUC 4222. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5235 (3) Language and Literacy Across the Curriculum

Same as EDUC 4232. Prerequisites: Restricted to EDCI, EECD, EFPP, EPSY or REME graduate students only.

School of Education | Education | Graduate Education

EDUC-5245 (3) Foundations of Reading Instruction K-12

Comparatively analyzes current and emerging philosophies and programs in K-12 with focus on teaching reading and thinking skills. Prerequisites: Restricted to Graduate Students only.

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EDUC-5255 (3) Processes Involved in Literary Interpretation

Stresses curiosity, observation, challenge, and insight into how children and adolescents learn to become literate beings. Discusses the work and play of literary interpretation including analytic reading, substantive discussion, reflective writing, visual presentation, and dramatic enactment where readers learn to take the words from the page to inform and transform their worlds. Prereq., EDUC 5245.

School of Education | Education | Graduate Education

EDUC-5265 (3) Processes in Writing

Examines processes writers use from early ages to maturity by investigating current research and proposing and evaluating research designs. Discusses the reciprocal relationship between reading

and writing instruction, emphasizing the Colorado Academic Content Standards and the International Reading Association Specialized Reading Professional Standards. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

School of Education Education Graduate Education

EDUC-5275 (3) Assessment in Literacy

Assumes an interactive model of reading and supports the perspective of assessment as interrelated with curriculum and instruction; examines principles that guide the selection and interpretation of assessment techniques, with a particular focus on low-performing students. Prereq., EDUC 5255. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5285 (3) Reading Clinic Procedures K-12

Focuses learning on a select group of low performing students to assess reading proficiency, develop appropriate instructional goals, and provide instruction that addresses these goals. Emphasis on interpreting assessment data, extending a repertoire of instructional strategies, and developing and implementing a strong instructional plan. Prereq., EDUC 5275.

School of Education Education Graduate Education

EDUC-5295 (3) Reading and Literacy in the Secondary Classroom

Examines ways in which adolescents develop literacy through reading, writing, speaking, viewing, and listening. Students learn to plan and organize literacy instruction based on ongoing assessment, to draw on and develop learner's linguistic skills related to reading, to support learner's reading comprehension skills, and to support their learning through oral language development. Prerequisites: Restricted to EDCI or EPSY or EECD or EFPP majors only.

School of Education Education Graduate Education

EDUC-5315 (3) Perspectives on Science

Explores contemporary ideas and issues in the history, philosophy, and sociology of science education and science, science as a social and cultural activity, and how contemporary issues in science relate to and impact educational practice. Same as EDUC 4312.

School of Education Education Graduate Education

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EDUC-4125 (3) Secondary World Language Methods

Presents and discusses issues in secondary school curriculum, instruction, and classroom management as they play out in world language classroom. Examines, analyzes, and evaluates a variety of teaching strategies, their effectiveness for students, and teacher dispositions to facilitate learning. Includes in-school experiences. Restricted to students admitted to the secondary teacher education program. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

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EDUC-4135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course.

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EDUC-4161 (1-3) Children's Literature

Addresses reading and evaluation of books, children's, interests, authors and illustrators, folk literature, multicultural literature, modern fanciful tales, and trends.

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EDUC-4222 (3) Language Study for Educators

Focuses on the nature of linguistic development and performance. Examines works that reflect a range of scholarly approaches to language study, explores language use both in and out of school, takes up the relationships between language practices and power, and considers implications for classroom teaching. Same as EDUC 5222.

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EDUC-4232 (3) Language and Literacy across the Curriculum

Explores the relationship between language and learning with the goal of developing teaching practices that engage students in using language as a tool for understanding and constructing meaning across the curriculum. Explores how language/literacy take on different forms and functions in different social contexts and academic disciplines. Restricted to students admitted to the secondary teacher education program. Same as EDUC 5235. Prerequisites: Restricted to undergraduate Science-Secondary Education (EDSC) or Mathematics-Secondary Education (EDMA) majors only.

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EDUC-4240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses. Prerequisites: Restricted to Graduate Students only.

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EDUC-4295 (3) Reading and Literacy in the Secondary Classroom

Examines ways in which adolescents develop literacy through reading, writing, speaking, viewing, and listening. Students learn to plan and organize literacy instruction based on ongoing assessment, to draw on and develop learner's linguistic skills related to reading, to support learner's reading comprehension skills, and to support their learning through oral language development. Prerequisites: Restricted to undergraduate English - Secondary Education (EDEN) or English - Secondary Education (EDSS) majors only.

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EDUC-4311 (3) Children's Literature and Literacy Engagement in Elementary Schools

Prepares teacher education candidates for teaching children's literature in elementary schools. Participants will understand theoretical and developmental processes associated with literary learning, methods for teaching literature in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards that foster such processes. Restricted to students admitted to the elementary education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

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EDUC-4312 (3) Perspectives on Science

Explores contemporary ideas and issues in the history, philosophy, and sociology of science education and science, science as a social and cultural activity, and how contemporary issues in science relate to and impact educational practice. Same as EDUC 5315.

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EDUC-4318 (3) The Nature of "English Language Arts"

Considers historical and ongoing controversies concerning the nature of "English" as an academic field of study and of "English Language arts" as a school subject. Integrates understandings of subject-matter specialization, of approaches to teaching this contested subject, and of the diverse learners that teachers seek to prepare for 21st century literacies. EDUC 4318 and 5318 are the same course.

School of Education | Education | General Education

EDUC-4321 (4-5) Integrated Reading and Writing for Elementary Schools

Participants will engage theories and processes of literacy learning, reading and writing development, and equity-oriented teaching. Students will learn, develop, and enact instructional strategies and lessons to support all students' successful participation in a range of multimodal literacy practices embedded in reading and writing instruction in elementary classrooms. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | Elementary Education

EDUC-4331 (3) Elementary Social Studies Methods

Prepares teacher education candidates for teaching social studies in a social justice and equity context. Participants will understand theoretical and developmental processes associated with social studies learning, culturally responsive teaching pedagogy in social studies, methods for teaching social studies in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | Elementary Education

EDUC-4341 (3) Elementary Reading Assessment and Instruction

Builds on knowledge and teaching practices introduced in EDUC 4321. Addresses five critical components of reading. Refines understanding of research-based practices for diagnostic assessments and intensive intervention teaching strategies for elementary age learners. Prepares candidates to deliver a comprehensive reading curriculum in the elementary grades. Prereq., EDUC 4321. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | Elementary Education

EDUC-4342 (3) Composition for Teachers

Fosters understandings of diverse students' writing processes and the development of a repertoire of research-based teaching practices. Emphasizes writing as a tool for both developing and communicating understandings across a range of settings. Restricted to students admitted to the English or Social Studies teacher education program. Same as EDUC 5345. Prerequisites: Restricted to undergraduate English - Secondary Education (EDEN) or English - Secondary Education (EDSS) majors only.

School of Education | Education | Secondary Education

EDUC-4351 (3-5) Differentiating Instruction in Diverse Elementary Classrooms

Focuses on teaching culturally and linguistically diverse elementary school students, special education students, and differentiation in the elementary classroom. Includes hands-on experiences in elementary school settings. Restricted to students admitted to the elementary teacher education program. Coreqs., EDUC 5205 and 5215. Credit not granted for this course and EDUC 4023. Prerequisites: Restricted to Elementary (EDEL) or Music (EDMU) Education majors only.

School of Education | Education | Elementary Education

EDUC-4411 (3) Educational Psychology for Elementary Schools

Integrates theories and ideas from elementary school child development and educational psychology. Explores theories of learning and child development and considers implications for teaching motivation, and academic achievement. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education | Education | General Education

EDUC-4425 (3) Introduction to Bilingual/Multicultural Education

Provides a comprehensive survey of bilingual-multicultural education programs for language minority students. Includes an overview of the history and legislation related to bilingual education and English as a second language. Presents various models, philosophies, and theoretical underpinnings of bilingual education and ESL. Same as EDUC 5425.

School of Education | Education | General Education

EDUC-4460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for those interested in physics, teaching, and education research. Prereqs., PHYS 3210 and 3310 or instructor consent. EDUC 4460 and 5460 are the same course. Same as PHYS 4460 and 5460.

School of Education | Education | Graduate Education

EDUC-4513 (2) Education and Practice

Meets during student teaching assignment. Includes topics of concern to teachers, such as classroom organization and management, lesson planning, assessment, journals, preparation of the teacher work sample, etc. Coreq., EDUC 4691, 4712, or 4722.

School of Education | Education | General Teacher Education

EDUC-4580 (3) Physics and Everyday Thinking

Engages non-physics majors in hands-on, minds-on activities and labs to investigate the physical world, the nature of science, and how science knowledge is constructed. This introductory course is especially relevant for future elementary and middle school teachers although it will meet the needs of most non-physics and non-science majors. Physics content focuses on interactions and energy. Additional assignments completed at 5000-level. Same as EDUC 5580.

School of Education | Education | General Education

EDUC-4610 (1-3) Math and Science Education

Introduces learning theory and teaching practices for mathematics and science learning assistants. Presents theoretical issues such as conceptual development, questioning techniques, cooperative learning, nature of math/science, and argumentation in mathematics and science. Restricted to students admitted to the Learning Assistant program.

School of Education | Education | General Education

EDUC-4691 (10) Student Teaching: Elementary School 1

Kindergarten through sixth grades. Prereq., completion of all education and content-specific arts and sciences requirements, and passing required licensure exam. Coreq., EDUC 4513. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education | Education | General Teacher Education

EDUC-4712 (10) Student Teaching: Secondary School

Student teacher apprentices in a middle/junior or senior high school. Must be admitted to a secondary teacher education program in English, Japanese, Latin, math, Russian, science, or social studies. Prereqs., completed all education and content-specific arts and sciences courses, and passed required licensure exam. Coreq., EDUC 4513.

School of Education | Education | General Teacher Education

EDUC-4716 (3) Basic Statistical Methods

Introduces descriptive statistics including graphic presentation of data, measures of central tendency and variability, correlation and prediction, and basic inferential statistics, including the t-test.

School of Education | Education | General Education

EDUC-4722 (5) Student Teaching: Secondary School 2

Student teacher apprentices in a middle/junior high or senior high school. Restricted to students admitted to a secondary teacher education program in French, German, or Spanish. Prereqs., completed all education and content-specific arts and sciences courses, and passed required licensure exam. Coreq., EDUC 4513. Prerequisites: Restricted to French-Secondary Education (EDFR), German-Secondary Education (EDGR), or Spanish-Secondary Education (EDSP) majors only.

School of Education | Education | General Teacher Education

EDUC-4732 (4-12) Student Teaching K-12

Required experience for music students seeking education at both elementary and secondary levels. Prereq., completed all education and content-specific music courses, passed required licensure exam. Coreq., MUSC 4193. Prerequisites: Restricted to Music Educ-Elem Sec or K-12 (EDMU) majors only.

School of Education | Education | General Teacher Education

EDUC-4800 (1-9) Special Topics

Designed to meet needs of students with topics of pertinent interest. May be repeated up to 18 total hours.

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EDUC-4810 (1-9) Special Topics

May be repeated up to 18 total credit hours, provided the topics vary.

School of Education Education General Education

EDUC-4811 (3-4) Teaching and Learning Biology

Provides an introduction to recent research into student learning on the conceptual foundations of modern biology, together with pedagogical methods associated with effective instruction and its evaluation. Students will be involved in active research into conceptual and practical issues involved in biology education, methods to discover student preconceptions, and the design, testing and evaluation of various instructional interventions. Same as MCDB 4811 and EDUC 6811.

School of Education Education Graduate Education

EDUC-4822 (3) Teaching and Learning Chemistry

Explores issues related to how people learn and teach chemistry. Reviews high school and early college chemistry concepts both from the content and pedagogical perspectives. Delves into the chemistry education research, education, psychology, and cognitive science literature. Provides an opportunity to observe and/or teach K-12 or college chemistry classes.

School of Education Education General Education

EDUC-4831 (3) Advanced Peer Education

Second semester of an academic year's training for students interested in peer counseling. Expand upon what you learned in ARSC 2274. Focus on presentations, leadership, and group facilitation. Basic group leadership, facilitation theory, and technique taught. Co-create and co-lead your own small groups/presentations for other CU students. Offered only spring semesters. Prereq., ARSC 2274 or instructor consent.

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EDUC-4840 (1-4) Independent Study

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EDUC-4910 (3) Peer Counseling Practicum (previously EDUC 4830, 4840)

Controlled enrollment. Repeatable for degree credit. Credit given for peer counseling activities. Students are selected to participate in this class and act as peer counselors or TAs for the peer counseling training.

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EDUC-4912 (1) Practicum in Teacher Education

Provides in-school practicum experience.

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EDUC-5005 (3) Advanced Social Foundations of Education

Critically examines the intellectual and political forces that shape the aims, policies, and practices of K-12 education in the United States, emphasizing the period following the Brown v. The Board of Education decision in 1954. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

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GRTE-5010 (1-5) Graduate Humanities for Teachers

Addresses special topics in arts and humanities with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

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EDUC-5015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace Corps and Volunteer Agencies. Same as EDUC 4015.

School of Education | Education | Graduate Education

GRTE-5020 (1-5) Graduate Mathematics for Teachers

Addresses special topics in mathematics with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

School of Education | Education | Graduate Teacher Education

GRTE-5030 (1-5) Graduate Natural Sciences for Teachers

Addresses special topics in natural sciences with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

School of Education | Education | Graduate Teacher Education

EDUC-5035 (3) Proseminar: Parent and Community Involvement

Focuses on models and strategies for improving parent and community involvement in the schools. Discusses administrative concerns, such as parent advisory councils, and instructional concerns, such as helping children with school assignments.

School of Education | Education | Graduate Education

GRTE-5040 (1-5) Graduate Social Sciences for Teachers

Addresses special topics in social sciences with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

School of Education | Education | Graduate Teacher Education

EDUC-5060 (3) Classroom Interactions

Same as EDUC 4060. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

School of Education | Education | Graduate Education

EDUC-5065 (3) Curriculum Theories

Examines four central curricular traditions: progressive; conservative; radical; and spiritual. Highlights the strengths and weaknesses of various writers within each tradition with attention paid to the conceptual features and the practical implications of each educational view. Encourages students to examine their own educational assumptions.

School of Education | Education | Graduate Education

EDUC-5070 (3) Spirituality and Religion in Education

Examines features of religion, spirituality, and a liberal arts education, so as to further understand the constitutional, historical and cultural constraints on, and acceptable approaches to the study of religion and spirituality in American education. Specifically explores aspects of a contemplative orientation and the degree to which such an orientation should/can be pursued in K-12 public and higher education. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5075 (3) Sociology in Education

In-depth analysis of theories and concepts in sociology and education. Evolution of curriculum, organization, and enrollment characteristics of American schools. Schooling, class, culture, gender, stratification, and educational reform in light of paradigmatic change in theories and concepts of sociology.

School of Education | Education | Graduate Education

EDUC-5085 (3) History of American Education

Highlights social and intellectual history perspectives of American educational history, major reform movements from the 19th century to Dewey, and assessment of how differences of race, class, ethnicity, religion, power, and gender affected American education. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5105 (3) Teaching for Understanding and Equity

Addresses perspectives and evidence-based teaching practices that promote equity and access to conceptual understanding. Introduces the knowledge base on effective and socially just teaching practices, and the theories and research that support these practices. Explores the impact of theory and research on classroom instruction.

School of Education Education Graduate Education

EDUC-5115 (3) Issues in School Change and Reform

Examines recent developments in teaching, and trends in the philosophy and practice of education. Focuses special attention on a variety of issues central to school reform.

School of Education Education Graduate Education

EDUC-5135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5145 (3) Gender, Literacy, and the K-12 Classroom

Explores and critiques various conceptions of gender within popular and scholarly publications that have influenced how gender is approached in classrooms. Builds a theoretical stance toward gender that supports equity, engagement and achievement for all children and youth. Discusses teaching strategies that thoughtfully take into account gender identities and equity.

School of Education Education Graduate Education

EDUC-5165 (3) Children's Literature

Involves reading and evaluation of picture books, and emphasizes children's interests, authors and illustrators, multicultural literature, the components of narrative, and the features of illustrations. Examines connections between children's literature and children's development as writers.

School of Education Education Graduate Education

EDUC-5205 (3) Elementary Mathematics Theory and Methods

Provides pre-service teachers opportunities to explore contemporary theories of learning, curriculum development, and pedagogical strategies pertaining to teaching elementary-level mathematics. Blends exploration in mathematical content with development of sophisticated mathematical models for teaching. Coreqs., EDUC 4351 and 5215. Restricted to elementary teacher education students. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education Education Elementary Education

EDUC-5215 (3) Elementary Science Theory and Methods

Provides pre-service elementary teachers opportunities to explore contemporary theories of learning, curriculum development, pedagogical strategies, and assessment. Blends scientific content, pedagogy, and practical applications. Coreqs., EDUC 4351 and 5205. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

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EDUC-5222 (3) Language Study for Educators

Same as EDUC 4222. Prerequisites: Restricted to Graduate Students only.

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EDUC-5235 (3) Language and Literacy Across the Curriculum

Same as EDUC 4232. Prerequisites: Restricted to EDCL, EECD, EFPP, EPSY or REME graduate students only.

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EDUC-5245 (3) Foundations of Reading Instruction K-12

Comparatively analyzes current and emerging philosophies and programs in K-12 with focus on teaching reading and thinking skills. Prerequisites: Restricted to Graduate Students only.

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EDUC-5255 (3) Processes Involved in Literary Interpretation

Stresses curiosity, observation, challenge, and insight into how children and adolescents learn to become literate beings. Discusses the work and play of literary interpretation including analytic reading, substantive discussion, reflective writing, visual presentation, and dramatic enactment where readers learn to take the words from the page to inform and transform their worlds. Prereq., EDUC 5245.

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EDUC-5265 (3) Processes in Writing

Examines processes writers use from early ages to maturity by investigating current research and proposing and evaluating research designs. Discusses the reciprocal relationship between reading and writing instruction, emphasizing the Colorado Academic Content Standards and the International Reading Association Specialized Reading Professional Standards. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

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EDUC-5275 (3) Assessment in Literacy

Assumes an interactive model of reading and supports the perspective of assessment as interrelated with curriculum and instruction; examines principles that guide the selection and interpretation of assessment techniques, with a particular focus on low-performing students. Prereq., EDUC 5255. Prerequisites: Restricted to Graduate Students only.

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EDUC-5285 (3) Reading Clinic Procedures K-12

Focuses learning on a select group of low performing students to assess reading proficiency, develop appropriate instructional goals, and provide instruction that addresses these goals. Emphasis on interpreting assessment data, extending a repertoire of instructional strategies, and developing and implementing a strong instructional plan. Prereq., EDUC 5275.

School of Education | Education | Graduate Education

EDUC-5295 (3) Reading and Literacy in the Secondary Classroom

Examines ways in which adolescents develop literacy through reading, writing, speaking, viewing, and listening. Students learn to plan and organize literacy instruction based on ongoing assessment, to draw on and develop learner's linguistic skills related to reading, to support learner's reading comprehension skills, and to support their learning through oral language development. Prerequisites: Restricted to EDCI or EPSY or EECD or EFPP majors only.

School of Education | Education | Graduate Education

EDUC-5315 (3) Perspectives on Science

Explores contemporary ideas and issues in the history, philosophy, and sociology of science education and science, science as a social and cultural activity, and how contemporary issues in science relate to and impact educational practice. Same as EDUC 4312.

School of Education | Education | Graduate Education

EDUC-5316 (3) Nature of Social Studies and Social Studies Education

Prepares teacher education candidates for teaching social studies in a social context. Participants will understand theoretical and developmental processes associated with social studies learning, methods for teaching social studies in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards that foster such processes. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI), Social Studies-Secondary Educ. (EDSS), Anthropology (ANTH), Economics (ECON), Geography (GEOG), History (HIST) or International Affairs (IAFS) majors only.

School of Education | Education | Graduate Education

EDUC-5317 (3) Perspectives on Mathematics

Explores the historical development of mathematics as a human construct, and the relationship between the discipline and the contemporary school mathematics curriculum. Focuses on the sociology of mathematics education and how cultural traditions and societal needs influence the school mathematics curriculum and educational practice.

School of Education | Education | Graduate Education

EDUC-5318 (3) The Nature of "English Language Arts"

Considers historical and ongoing controversies concerning the nature of "English" as an academic field of study and of "English Language arts" as a school subject. Integrates understandings of subject-matter specialization, of approaches to teaching this contested subject, and of the diverse learners that teachers seek to prepare for the 21st century literacies. EDUC 4318 and 5318 are the same course. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5325 (3) Teaching Literature in Middle and Secondary Schools

Provides teachers of English with background and experiences relevant to using reading, writing, and a range of other classroom social languages to teach literature to a culturally and intellectually diverse population of students. Explores relevant literary theories, texts, and genres, and examines contemporary and historical perspectives on the meaning and function of stories in both personal and democratic public life. Restricted to students admitted to the secondary English education program. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI), English - Secondary Education (EDEN), or Social Studies-Secondary Educ.(EDSS) majors only.

School of Education | Education | Graduate Education

EDUC-5345 (3) Composition for Teachers

Same as EDUC 4342. Prerequisites: Restricted to EDCI or EPSY or EECD or EFPP majors only.

School of Education | Education | Graduate Education

EDUC-5355 (3-4) Methods and Materials in Secondary Social Studies

Focuses on curriculum, materials, methods, assessment, and related aspects of instruction. Introduces best practices in teaching the social studies in middle and high schools. Examines the Colorado Academic Content Standards. Prereqs., EDUC 4295/5295 and EDUC 5325. Restricted to students admitted to the secondary social studies teacher education program. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) or Social Studies-Secondary Educ. (EDSS) majors only.

School of Education | Education | Graduate Education

EDUC-5365 (3-4) Methods and Materials in Secondary English

Focuses on curriculum, materials, methods, and assessment. Introduces best practices in the teaching of English in middle and high schools. Examines the Colorado Academic Content Standards. Prereqs., EDUC 4295/5295 and EDUC 5325. Restricted to students admitted to the secondary English teacher education program. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) or English - Secondary Education (EDEN) majors only.

School of Education | Education | Graduate Education

EDUC-5375 (3-4) Project-Based Math Instruction

Focuses on curriculum, materials, methods and assessment, and related aspects of instruction. Introduces best practices in teaching mathematics in middle and high schools. Examines the Colorado Academic Content Standards. Prerequisites: Restricted to EDCI, EDSC, or EDMA majors only.

School of Education | Education | Graduate Education

EDUC-5385 (3-4) Project-Based Science Instruction

Focuses on curriculum, materials, methods, assessment, and related aspects of instruction. Introduces best practices in teaching science in middle and high schools. Examines the Colorado Academic Content Standards. Prerequisites: Restricted to EDCI, EDSC, or EDMA majors only.

School of Education | Education | Graduate Education

EDUC-5425 (3) Introduction to Bilingual/Multicultural Education

Provides a comprehensive survey of bilingual-multicultural education programs for language minority students. Includes an overview of the history and legislation related to bilingual education and English as a second language. Presents various models, philosophies, and theoretical underpinnings of bilingual education and ESL. Same as EDUC 4425. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5435 (3) Materials and Methods in Bilingual/ Multicultural Education

Provides an in-depth study of the curriculum options available for bilingual and ESL programs. Presents, reviews, and critiques specific methods and strategies for teaching language to minority students. Gives the opportunity to develop and present teaching units in Spanish or in ESL methodology, as appropriate. Prereq., EDUC 5425.

School of Education | Education | Graduate Education

EDUC-5445 (3) Curriculum for Multicultural Education

Analyzes curriculum programs and examines principles that inform innovation for education of diverse students at all school levels. Includes topics of ethnic, racial, socio-economic, linguistic, and gender diversity.

School of Education | Education | Graduate Education

EDUC-5455 (3) Literacy for Linguistically Different Learners

Presents current and emerging philosophies and methods on teaching reading to culturally diverse second-language learners. Includes review of materials, strategies for teaching reading and writing skills, and important considerations for transference from L1 to L2 reading. Prereq., Educ 5425 or reading course at 5000 level.

School of Education | Education | Graduate Education

EDUC-5460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for those interested in physics, teaching, and education research. Prereqs., PHYS 3210 and 3310 or instructor consent. EDUC 4460 and 5460 are the same course. Same as PHYS 4460 and 5460. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5465 (3) Introduction to ESL/Bilingual and Special Education

Provides students with the fundamental information of ESL, bilingual and special education, including theories, assumptions, philosophies, and paradigms of bilingual and special education. Discusses successful teaching techniques and instructional approaches, including individualization, least restrictive environment, transition, and career education.

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EDUC-5485 (3) Differentiation in the Classroom

Focuses on teaching culturally and linguistically diverse school students, special education students, and differentiation in the classroom. Emphasizes evidence-based teaching practices and programmatic interventions that support student learning.

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EDUC-5505 (3) Education of Students with Learning and Behavior Disorders

Discusses unique learning needs of students with learning and behavior disorders. Emphasizes development of a systems model for diagnosis, programming, and remediation. Stresses data-based individualization of instruction, with emphasis on intervention in inclusive learning environments and developing a culturally responsive system.

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EDUC-5515 (3) Curriculum and Assessment for Special Learners

Emphasizes assessment of special education students from pre-referral through staffing and placement, including response to intervention, research-based assessment practices, analytic teaching and assessment, curriculum-based assessment and measurement. Selection, administration, and interpretation of formal and informal assessment devices are studied, with particular emphasis on cultural relevance and equity in assessment for special learners with mild to severe needs. Prerequisites: Restricted to Graduate Students only.

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EDUC-5525 (3) Research Issues in Special Education

Provides practical experience in the review, critique, conceptualization, and writing of research studies in special education. Also offers experience in design of evaluation systems for classroom practice. Prerequisites: Restricted to Graduate Students only.

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EDUC-5535 (3) Diagnostic Testing in ESL and Bilingual Education

Includes both theoretical and applied aspects of diagnostic testing. Reviews administration and interpretation of current formal and informal educational tests (language proficiency). Emphasizes practices for equitable testing and assessment of English language learners. Prerequisites: Restricted to Graduate Students only.

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EDUC-5545 (3) Strategies for Teaching Students with Special Needs

Provides teachers with specific evidence-based methods and techniques for teaching students with a wide variety of high and low disabilities including learning and language disabilities, hearing and visual impairments, physical disabilities, and health impairments. Emphasizes different teaching methods, instructional materials, and learning strategies that have proven effective working students with cognitive learning needs. Prerequisites: Restricted to Graduate Students only.

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EDUC-5555 (3-4) Practicum in Bilingual/Special Education

Offers supervised field experience in elementary and secondary special education class settings. Each credit hour requires 50 contact hours. Prereqs., EDUC 5465, 5505, and EDUC 5515 or 5545. Prerequisites: Restricted to Graduate Students only.

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EDUC-5575 (1-4) Workshop in Curriculum and Instruction

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EDUC-5580 (3) Physics and Everyday Thinking

Same as EDUC 4580.

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EDUC-5595 (1-4) Practicum in Linguistically Different: English as a Second Language

University supervised, school-based field experience teaching linguistically different students, as well as assistance in the completion of EECD portfolio. Prereqs., EDUC 5425, 5435 and 5535. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5605 (3) Research Issues in Bilingual Education

Offers practical experience in the review, critique, conceptualization, and writing of research studies in bilingual/ESL education. Provides experience in the design of classroom evaluation systems. Prereq., EDUC 5425. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5610 (1-3) Math and Science Education

Introduces learning theory and teaching practices for mathematics and science learning assistants. Presents theoretical issues such as conceptual development, questioning techniques, cooperative learning, nature of math/science, and argumentation in mathematics and science.

School of Education | Education | Graduate Education

EDUC-5615 (3) Second Language Acquisition

Presents a broad survey of second-language acquisition research. Stresses theoretical concerns and research findings and practical applications to teaching second languages. Gives special emphasis to second-language acquisition. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5625 (3) Methods of Teaching English as a Second Language

Prepares teachers to teach English as a second language in public schools in the United States. Covers both theoretical and applied aspects of language learning and teaching. Recommended prereq., EDUC 5615.

School of Education | Education | Graduate Education

EDUC-5635 (3) Education and Sociolinguistics

Explores the discipline of sociolinguistics, the study of language variation and use, and its application within education settings. Not designed as an advanced sociology or linguistics course. Areas of study include language variation, speech communities, the ethnography of communication, speech and social identities, and sociolinguistic research related to teaching and learning.

School of Education | Education | Graduate Education

EDUC-5706 (3) Assessment in Mathematics and Science Education

Examines purposes and practices of assessment in mathematics and science education. Particular attention is given to application of theoretical foundations and contemporary research in the design and use of assessment techniques and tools to support teaching for student understanding. Addresses the role of effective formative assessment in teaching and learning.

School of Education | Education | Graduate Education

EDUC-5716 (3) Basic Statistical Methods

Introduces descriptive statistics including graphic presentation of data, measures of central tendency and variability, correlation and prediction, and basic inferential statistics, including the t-test. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5726 (3) Introduction to Disciplined Inquiry

Considers various research approaches and methodologies included in education including experimental and quasi-experimental methods; anthropological and case study methods; evaluative research and field studies; correlational; and sociological, historical, and philosophical research. Topics include library research, research criticism, research design, and proposal writing. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5810 (3) Teaching K-12 Mathematics: Number Sense

Provides teachers opportunity to explore fundamental mathematical theories and pedagogical perspectives pertaining to the teaching and learning of number and operation. Engages students in explorations of mathematical content underlying number and operations, while highlighting relevant problem solving, reasoning and proof, and mathematical connections. Explores implications of teachers' mathematical learning on their classroom teaching. Develops practices supporting learner's number sense development.

School of Education | Education | Graduate Education

EDUC-5820 (3) Teaching K-12 Mathematics: Algebraic Thinking

Uses reform-based mathematics curricula to engage participants in algebraic thinking, to reflect on their own knowledge of algebraic concepts, and to examine pedagogical ideas that can foster K-12 students' algebraic thinking and learning. Algebraic topics include patterning, variable, functions, multiple representations, equality, and solving linear and systems of equations.

School of Education | Education | Graduate Education

EDUC-5822 (3) Teaching and Learning Chemistry

Explores issues related to how people learn and teach chemistry. Reviews high school and early college chemistry concepts both from the content and pedagogical perspectives. Delves into the chemistry education research, education, psychology and cognitive science literature. Provides an opportunity to observe and/or teach K-12 or college chemistry classes.

School of Education | Education | Graduate Education

EDUC-5830 (3) Teaching K-12 Mathematics: Geometry & Measurement

Provides an opportunity to explore how to foster geometric thinking while examining fundamental mathematical theory underlying the content area of geometry and measurement. Emphasizes investigative approach involving problem solving, reasoning, connections, and communication as well as learning mathematics content in a flexible and conceptual way. Challenges participants to apply their understanding to teaching practices that foster geometric thinking in K-12 learners.

School of Education | Education | Graduate Education

EDUC-5840 (3) Teaching K-12 Mathematics: Probability & Statistics

Focuses on teaching probability, data analysis, and statistics in K-12 classrooms. Explores curriculum and assessment strategies in the areas of probability and statistics. Examines research on students' thinking on stochastic tasks and how this research informs teaching practice. Emphasizes deepening of one's conceptual understanding of probability and statistics and their importance in the current information age.

School of Education | Education | Graduate Education

EDUC-6210 (3) Education Policy and the Law

Approaches education policy issues through the rich history of litigation and current legal challenges facing American K-12 schooling. Builds an understanding of the legal and policy development of the American schooling system, particularly in the 20th century. Laws and legal cases will be used as jumping-off points for broader discussions. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-6220 (3) Gender Issues in Education

Provides a strong foundation in the various issues of gender and sexual diversity in education. Stimulates explorations into the ways the construct of "gender" affects and is affected by the educational system and process. Presents theory and research about contemporary educational issues related to sexism and homophobia. Encourages development of well-considered views about the various issues, research, and theories.

School of Education | Education | Graduate Education

EDUC-6230 (3) Ethics in Education

Investigates controversies in education from a self-consciously ethical perspective, drawing as appropriate from moral and political theory as well as law. Focuses on public education's role in fostering democratic citizenship and providing equal educational opportunity. Critically evaluates various education reform policies and curriculum policies. Applies method commonly used in medical ethics to make decisions regarding concrete ethically problematic cases.

School of Education | Education | Graduate Education

EDUC-6240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses.

School of Education | Education | General Education

EDUC-6318 (3) Psychological Foundations of Education

Introduces students to theoretical and empirical contributions of educational psychology, emphasizing applications to educational practices. Topics include learning, development, cognitive processes, social and cultural context, motivation, assessment, and individual differences. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-6325 (3) Culture and Ethnography in Education

Applies anthropological perspectives to research in educational settings. Focuses on theories of culture, cultural transmission and acquisition, and cultural reproduction and production for understanding schooling and its outcomes.

School of Education | Education | Graduate Education

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EDUC-6328 (3) Advanced Child Growth and Educational Development

Introduces students to recent theoretical and research advances in the study of children and adolescent's cognitive, social and emotional development, with an emphasis on implications for learning in and out of school.

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EDUC-6368 (3) Adolescent Psychology and Development for Teachers

Examines current theory and research on adolescent development, learning, motivation, and academic achievement. Emphasizes how theory and research can inform instructional decisions in the secondary classroom. Restricted to English-Secondary Education (EDEN), Social Studies-Secondary Educ (EDSS), Mathematics-Secondary Educ (EDMA) or Science-Secondary Educ (EDSC) graduate students only. Prerequisites: Restricted to English-Secondary Education (EDEN), Social Studies-Secondary Educ (EDSS), Mathematics-Secondary Educ (EDMA) or Science-Secondary Educ (EDSC) graduate students only.

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EDUC-6504 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Prereqs., graduate standing or at least one upper-division course in computer science, linguistics, philosophy, or psychology. Same as CSCI 6402, LING 6200, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

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EDUC-6505 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint PhD in cognitive science. Prereq., graduate standing. Same as CSCI 7762, LING 7762, and PSYC 7765.

School of Education | Education | Graduate Education

EDUC-6506 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as PSYC 7415, LING 7415, PHIL 7415, and CSCI 7412. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-6516 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, LING 7425, PHIL 7425, and CSCI 7422. Prerequisites: Restricted to Graduate Students only.

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EDUC-6804 (1-4) Special Topics

May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-6811 (3-4) Teaching and Learning Biology

Provides an introduction to recent research into student learning on the conceptual foundations of modern biology, together with pedagogical methods associated with effective instruction and its evaluation. Students will be involved in active research into conceptual and practical issues involved in biology education, methods to discover student preconceptions, and the design, testing and evaluation of various instructional interventions. Same as MCDB 4811 and EDUC 6811. Prerequisites: Restricted to Graduate Students only.

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EDUC-6844 (1-4) Master's Independent Study

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EDUC-6855 (1-4) Independent Study in Curriculum and Instruction---Master's Level

School of Education | Education | Graduate Education

EDUC-6877 (1-4) Independent Study in Educational Equity & Cultural Diversity: Master's Level

School of Education | Education | Graduate Education

EDUC-6888 (1-4) Independent Study in Educational and Psychological Studies---Master's Level

School of Education | Education | Graduate Education

EDUC-6899 (1-4) Independent Study in Educational Foundations Policy & Practice--Master's Level

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EDUC-6915 (1-4) Practicum in Curriculum and Instruction

School of Education | Education | Graduate Education

EDUC-6916 (1-4) Practicum in Research and Evaluation Methodology

School of Education | Education | Graduate Education

EDUC-6917 (1-4) Practicum in Educational Equity and Cultural Diversity

School of Education | Education | Graduate Education

EDUC-6918 (1-4) Practicum in Educational and Psychological Studies

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EDUC-6919 (1-4) Practicum in Educational Foundations Policy and Practice

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EDUC-6925 (1-4) Readings in Curriculum and Instruction

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EDUC-6926 (1-4) Readings in Research and Evaluation Methodology

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EDUC-6927 (1-4) Readings in Educational Equity and Cultural Diversity

School of Education | Education | Graduate Education

EDUC-6928 (1-4) Readings in Educational and Psychological Studies

School of Education | Education | Graduate Education

EDUC-6929 (1-4) Readings in Educational Foundations Policy and Practice

School of Education | Education | Graduate Education

EDUC-6944 (1) Master's Degree Candidate

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EDUC-6954 (1-6) Master's Thesis

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EDUC-6964 (3) Capstone: Inquiry in the Content Areas

Supports students in using and building on the ideas and content encountered in previous coursework. Requires students to conceptualize, design and implement an original research project that will serve as exit requirement for the degree. Reads and engages in research and theory associated with Teacher Research (i.e. research conducted by teachers for professional purposes).

Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

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EDUC-7015 (3) Teaching Internship in Teacher Education

One-semester teaching internship in an undergraduate or graduate foundations course.

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EDUC-7055 (3) Philosophy of Education

Examines exemplars of educational philosophy from ancient times to the present day, emphasizing their relevance and application to current controversies in education (e.g., free speech, multiculturalism, and affirmative action). Formerly EDUC 5055. Prerequisites: Restricted to Graduate Students only.

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EDUC-7105 (3) Collaboration to Meet Special Needs

Covers effective collaboration practices involving the special education teacher, other educational personnel, students, and parents. Bilingual special education considerations in collaboration will be described. Issues regarding inclusion will be explored. Practical application to teaching and learning will be made. Strategies for disseminating information and collaborative activities will be

discussed.

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EDUC-7316 (3) Intermediate Statistical Methods

Studies sampling theory and inferential statistics; advanced applications for testing of hypotheses regarding central tendency, variability, proportion, correlation, and normality; chi-square and the analysis of frequency data; multiple regression and prediction; introduction to the analysis of variance; and related computer programs for statistical analysis. Prereq., EDUC 5716.

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EDUC-7326 (3) Experimental Design and Analysis 1

Focuses on experimental and quasi-experimental designs in educational research; applications of the general linear model; power and statistical efficiency; randomization and control; multiple comparisons; factorial experiments and interaction with fixed-factor and mixed design; analysis of covariance; effects of assumption violations; and related computer programs for statistical analysis. Prereqs., EDUC 5726 and 7316.

School of Education | Education | Graduate Education

EDUC-7336 (3) Methods of Survey Research and Assessments

Examines theory and techniques involved in each stage of survey research, including problem formulation, questionnaire development, interview and mailed surveys, assessing reliability and validity, sampling plans, data reduction (e.g., factor analysis), and analysis of continuous and categorical data. Prereqs, EDUC 5726 and 7316.

School of Education | Education | Graduate Education

EDUC-7346 (3) Ethnographic Methods in Educational Research

Explores the history of ethnography and its translation into educational research. Students practice participant observation, interviewing, journal writing, artifact searches, qualitative analysis and interpretation, and styles of reporting. Prereq., EDUC 6325 or equivalent doctoral level course in anthropological or sociological theory, or sociology of education.

School of Education | Education | Graduate Education

EDUC-7376 (3) Theory and Practice of Educational and Psychological Measurement

Introduces theories of measurement and applications, and presents classical test theory. Includes quantitative concepts, methods, and computational techniques for the development, application, and evaluation of measurement instruments in social/ behavioral science and education. Prereq., EDUC 5716.

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EDUC-7386 (3) Educational Evaluation

Builds an understanding of the range of approaches taken by educational evaluators, focusing particularly on the evaluation of programs. Explores the nature of different evaluation perspectives and how these disparate views translate into methodological and conceptual models. Students develop a familiarity with the most common and influential approaches to evaluation.

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EDUC-7396 (3) Multivariate Analysis

Introduces contemporary advanced multivariate techniques and their application in social science research. Methods include multivariate regression and analysis of variance, structural equation models, and hierarchical/multi-level models. Prior experience with Anova and multiple regression is assumed. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-7416 (3) Seminar: Research Methodology

Presents selected topics for advanced study in educational research, statistics, measurement, and evaluation.

School of Education | Education | Graduate Education

EDUC-7436 (3) Item Response Theory

Includes one-, two-, and three-parameter logistic models for dichotomously-scored items and partial credit models for polychotomously-scored items; applications of the models to problems such as equating of test forms, test design, computerized adaptive testing, and the detection of item bias. Prereqs., EDUC 7316, 7376.

School of Education | Education | Graduate Education

EDUC-7446 (3) Seminar: Policy Issues in Education

Explores major policy issues confronting U.S. education and examines the nature and undertaking of educational policy studies. Learn to approach policy issues from a contextual perspective that highlights systemic forces and analyzes and applies differing policy instruments. While a wide variety of policies are covered in the course, it particularly emphasizes issues of educational equity.

School of Education | Education | Graduate Education

EDUC-7456 (3) Advanced Multivariate Methods: Multi-level and Latent Variable Modeling

Covers in depth two advanced multivariate models common to social science research: latent variable (structural equation) models and multi-level (hierarchical) models. Topics may be taught with a particular analytic context, such as measurement of change (longitudinal analysis) or experimental design. Prereq., EDUC 7396 or equivalent.

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EDUC-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, PSYC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

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EDUC-8014 (3) Doctoral Seminar: Multiculturalism and Education

Addresses the sociopolitical context of multiculturalism and education, and the sociocultural context of learning. Examines critical issues involved in making schooling responsive to an increasingly multicultural and multilingual society. Required for all doctoral students. Prereqs., EDUC 8210, 8220, 8230 8240, 8250 and 8260. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8025 (3) Seminar: Curriculum Theories

Examines in depth recent developments in curriculum theory highlighting conceptual, contextual, and normative issues. Substantially explores distinct curricular traditions, corresponding conceptions of the good life along with related approaches to reason and emotion. Focuses on the works of prominent curriculum theorists.

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EDUC-8045 (3) Philosophical Issues in Educational Research

Familiarizes students with important concepts and issues from the philosophy of science and, to a lesser extent, political theory and ethics; grounds such concepts and issues in the literature (often in terms of primary philosophical sources); and stimulates students to apply this material to the field of educational research in an informed way. Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8055 (3) Theoretical Issues in Education Policy

Provides students with an examination of the theories behind education policy analysis. Takes a thematic approach to the study of policy in order to understand how policy agendas are set; how democratic deliberation should be linked with research and policy; and the relationship between politics, social structures, research, and policies. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8125 (3) Seminar: Radical Education Theories

Examines radical analyses, based on class, gender, and race, that public schooling in the U.S. maintains a dynamic of oppression and domination that undermines the schools' democratic premise. Scrutinizes the conceptual framework, interpretive and explanatory adequacy, and ethical justification of radical claims.

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EDUC-8135 (3) Seminar: Research on Teaching

Provides an historical perspective of research on teaching, focusing on the evolution of conceptual frameworks, research methods, and research findings. Examines substantive and methodological issues that underlie contemporary research on teaching. Explores areas of research including teacher knowledge and beliefs, teaching for understanding, understanding student thinking, motivation and volition, and classroom assessment.

School of Education Education Graduate Education

EDUC-8145 (3) Seminar: Research on Teacher Education and Learning to Teach

Explores substantive and methodological issues that underlie current research on learning to teach, teacher education, and teacher professional development. Considers the learning and development of experienced and novice teachers, with an emphasis on learning to teach in ways that conform to reform-based educational ideas.

School of Education Education Graduate Education

EDUC-8155 (3) Advanced Topics in Literacy Education

Examines special topics in theory and research related to literacy and literacy education. Topics vary each semester. May be repeated up to 12 total credit hours.

School of Education Education Graduate Education

EDUC-8165 (3) Advanced Topics in Mathematics Education

Examines special topics in theory and research related to mathematics education. Topics vary each semester. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

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EDUC-8175 (3) Advanced Topics in Science Education

Examines special topics in theory, research, and assessment related to science education. Focuses on the development of the doctoral prospectus. Provides opportunities for students to defend their own work and to critique the work of their peers. Topics range from theoretical framing to presenting and defending one's work. May be repeated up to 12 total credit hours.

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EDUC-8210 (3) Perspectives on Classroom Teaching and Learning

Introduces students to various paradigms within educational research and how they are employed to study teaching and learning in K-12 classrooms. Includes an analysis of the theories, assumptions, questions, methods, and findings associated with each of them. Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8220 (3) Introduction to Educational Research and Policy

Introduces conceptual and empirical issues and controversies in educational research and policy. Complements other doctoral courses in quantitative and qualitative methodology. Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8230 (3-4) Quantitative Methods I

Explores the use of statistics to formalize research design in educational research. Introduces descriptive statistics, linear regression, probability, and the basics of statistical inference. Includes instruction in the use of statistical software, (e.g., SPSS.). Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8240 (3-4) Quantitative Methods II

Continues the exploration of research design in the social sciences, especially the evaluation of the quantitative research reported in professional journals. Introduces instances of the general linear model (both multiple regression and ANOVA) and its application to educational research. Prereq., EDUC 8230 or equivalent. Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8250 (3) Qualitative Methods I

Introduces students to the theory and practice of qualitative research in education. First of a two-course sequence covering research design, theoretical perspectives, and methods. Preference given to first-year doctoral students in education. Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8260 (3) Qualitative Methods II

Builds on EDUC 8250 to develop knowledge and skills in ethnographic and case study research. Second of a two-course sequence covering qualitative research design, theoretical perspectives, and methods. Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

School of Education | Education | Graduate Education

EDUC-8348 (3) Seminar: Human Development

Intensive study of selected topics in human development. The focus of the seminar will vary depending on the instructor's expertise and students' interests; may repeat for credit more than once. Recent topics include adolescent development in social context, Vygotsky and Cultural-Historical Activity Theory, and teaching and learning in and out of school. Prereqs., EDUC 6318, EDUC 8210, or instructor consent. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8358 (3) Seminar: Human Learning

Intensive study of selected topics in human learning. The focus of the seminar will vary depending on the instructor's expertise and students' interest; may repeat for credit more than once. Recent topics include sociocultural, situated, and other approaches to understanding the role of discourse in learning and teaching disciplinary content in school. Prereq., EDUC 6318, EDUC 8210, or instructor consent.

School of Education | Education | Graduate Education

EDUC-8605 (3) Research and Professional Ethics for Educational Researchers

Examines the central issues and venerable theories of philosophical ethics that have historically framed research ethics. Also examines contemporary ethical theory that emphasizes a greater attention to the social sciences. Focuses on research ethics (both research of human subjects and research misconduct), various issues of professional academic ethics, and the AERA ethical code. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8610 (3) Advanced Topics in Educational Equity and Cultural Diversity

Examines special topics in theory and research related to educational equity and cultural diversity in education. Topics vary each semester. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

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EDUC-8615 (3) Language Issues in Education Research

Examines ways in which issues of language can affect the validity of educational research. Discusses how language can be properly addressed with a multidisciplinary perspective through different stages in the process of an investigation, including design, sampling, data collection, and data analysis. Provides the conceptual basis for addressing linguistic diversity from a multidisciplinary perspective. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8710 (3) Measurement in Survey Research

Introduces students to classical test theory and item response theory. Emphasizes the process of developing, analyzing and validating a survey instrument. Focuses on developing a survey instrument with items that derive from a clearly delineated theory for the construct to be measured. Analyzes item responses and put together a validity argument to support the proposed uses of the survey. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8720 (3) Advanced Topics in Measurement

Focuses on psychometric models for measurement and their applications in educational and psychological research. Emphasizes understanding and evaluating the utility of models from item response theory (IRT). Applies and compares measurement models in the context of simulated or empirical data sets. Recommended prereq., EDUC 8710.

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EDUC-8730 (3) Advanced Qualitative Data Analysis

Requires students begin semester with qualitative data already collected (from class project, pilot study, dissertation). Focuses on three approaches to data analysis: reconstruction, coding (deductive and inductive), and constant comparative method. Students apply these approaches to their own data. Instructors customize part of course to address specific topic of expertise, e.g., discourse analysis, video analysis, textual analysis, ethnographic analysis. May be repeated up to 12 total credit hours.

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EDUC-8740 (3) Advances in the Assessment of Student Learning

Focuses on theories underlying traditional and contemporary proposals for assessment of student learning, and design and research of large-scale and classroom-based methods to assess student learning. Explores intersections between large-scale and classroom assessment, although gives greater attention to issues related to classroom assessment. Prerequisites: Restricted to Graduate Students only.

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EDUC-8804 (3) Special Topics

Designed to meet needs of graduate students with topics of pertinent interest. Prerequisites: Restricted to Graduate Students only.

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EDUC-8844 (1-4) Doctoral Independent Study

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EDUC-8855 (1-4) Independent Study in Curriculum and Instruction: Doctoral Level

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EDUC-8866 (1-4) Independent Study in Research and Evaluation Methodology: Doctoral Level

School of Education | Education | Graduate Education

EDUC-8877 (1-4) Independent Study in Educational Equity and Cultural Diversity: Doctoral Level

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EDUC-8888 (1-4) Independent Study in Educational and Psychological Studies: Doctoral Level

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EDUC-8899 (1-4) Independent Study in Educational Foundations Policy and Practice: Doctoral Level

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EDUC-8935 (1-6) Internship in Curriculum and Instruction

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EDUC-8936 (1-6) Internship in Research and Evaluation Methodology

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EDUC-8937 (1-6) Internship in Educational Equity and Cultural Diversity

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EDUC-8938 (1-6) Internship in Educational and Psychological Studies

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EDUC-8939 (1-6) Internship in Educational Foundations Policy and Practice

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EDUC-8950 (3) Prospectus and Dissertation Writing

Provides students with ongoing opportunities to write social science research in the context of the design, analysis and data representation, development, and write-up of students' dissertation proposals and dissertations. Students will learn to expand how they think about and use evidence, clarify their ideas and arguments, and improve their writing. Students working on proposals and dissertations should enroll. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8994 (1-10) PhD Doctoral Dissertation

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Behavioral Genetics

The Institute for Behavioral Genetics (IBG) offers a training program in behavioral genetics. The goal of the program is to train scientists in the study of genetic contributions to individual differences in behavior. This is accomplished by requiring students to obtain strong training in a primary academic discipline, by providing training in the interdisciplinary field of behavioral genetics, and by providing an atmosphere in which close interactions among scholars with different perspectives may be established.

The program features a core set of courses and continuous research training with one or more IBG faculty members, and furnishes valuable opportunities for interaction among scholars with widely varying academic backgrounds. A student wishing to specialize in behavioral genetics must be regularly enrolled as a graduate student in an academic department of the university.

The training program requires completion of four core courses (Genetics, Molecular and Behavioral Genetics, Statistics, and Scientific Integrity), one course from core quantitative electives (Quantitative Genetics, Biometrical Methods in Behavioral Genetics, and Statistical Genetics), one course from core basic science electives (Bioinformatics and Genomics, Neuropharmacology), and one "Concepts" or "Seminar" course in behavioral genetics. Students also must participate in a weekly journal club and monthly colloquia series.

Each trainee works as a teaching assistant for one semester in a course relevant to his or her professional specialty. An IBG trainee's doctoral dissertation research must be conducted on a topic directly relevant to animal or human behavioral genetics.

A student in the interdisciplinary certificate program must have an IBG faculty member as an advisor and an advisory committee composed of faculty from both IBG and the academic department. The advisory committee evaluates the student's progress and may impose additional requirements.

Information about the IBG interdisciplinary certificate program may be obtained at www.colorado.edu/ibg/education_and_training/affiliated.html or by contacting the Institute for Behavioral Genetics, University of Colorado Boulder, 447 UCB, Boulder, CO 80309-0447; **303-492-7362**, fax **303-492-8063**.

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Biotechnology

The graduate certificate program in biotechnology provides integrated, interdisciplinary training that encompasses both modern biological sciences and biochemical engineering. The goal of the program is to help students acquire the skills and credentials to undertake crossdisciplinary research in modern industrial, academic, and government biotechnology research laboratories and the perspective to serve as leaders in the advancement of beneficial applications of modern biotechnology.

The graduate biotechnology program is offered cooperatively by the Departments of Chemical and Biological Engineering, Chemistry and Biochemistry, and Molecular, Cellular, and Developmental Biology. The program awards a certificate, not a separate degree; each student enrolls in a participating department and meets the degree requirements for that department.

A student must take 6 semester credit hours of graduate biotechnology courses, including CHEN 5830 Introduction to Modern Biotechnology *and* CHEN 5831 Biotechnology Case Studies. For the remaining credits, bioscience graduate students choose from bioengineering courses, and bioengineering students choose from bioscience courses.

During their first year, students take laboratory rotations in participating faculty laboratories. At least one laboratory rotation must be outside the student's home department. Students receive up to 7 semester credit hours of independent study or laboratory-methods credit for these rotations.

All students are expected to undertake internships with local biotechnology companies. These internships usually take place during the summer after the first year of graduate study.

For more information on the biotechnology certificate program, contact Professor Ryan Gill, Department of Chemical and Biological Engineering, University of Colorado Boulder, 424 UCB, Boulder, CO 80309-0424; **303-492-2627**.

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Center for Advanced Engineering and Technology Education (CAETE)

The Center for Advanced Engineering and Technology Education (CAETE) is the distance learning and professional studies arm of the College of Engineering and Applied Science. CAETE provides convenient and flexible education for working professionals. Courses are delivered in the campus classroom and via the Internet to students across the country and abroad.

Academic course sequences may lead to a graduate certificate or master's degree in the following areas:

Certificates

- Computer and Network Security
- Embedded Systems (classroom only)
- Engineering Management
- Engineering Entrepreneurship
- Leadership and Ethical Decision Making
- Managing Applied Research in Technology
- Managing Research and Development
- Performance Excellence in Technology Management
- Power Electronics
- Project Management
- Quality Systems for Product and Process Engineering
- Six Sigma
- Software Engineering
- Technology Ventures and Product Management
- Wireless Networks and Technologies

Degrees

- Aerospace Engineering, MS
- Computer Science, ME
- Electrical, Computer, and Energy Engineering, ME and MS
- Engineering Management, ME
- Telecommunications, ME and MS

CAETE also provides access to over 100 prerecorded courses via their virtual library. These courses are available for academic course work, or purchase by companies for in-house training.

For additional information refer to the engineering and applied science section or contact CAETE at **303-492-6331**, caete@colorado.edu, or caete.colorado.edu.

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Critical Theory

[Certificate Program](#)

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Embedded Systems

In the last few years, commercially available digital systems (microprocessors, microcontrollers, memory chips, interface systems, and systems that handle image, voice, music, and other types of signals) have experienced explosive growth in the electronics industry. These devices are increasingly powerful, cheap, and flexible as design components.

+ Certificate Program

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Environment, Policy, and Society

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Human Language Technology

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Hydrologic Sciences

The CU-Boulder Hydrologic Sciences Graduate Program focuses on quantitative studies of water in the environment including its role in geologic and biogeochemical processes, ecosystem functions, and global elemental cycling. The program is interdisciplinary and interdepartmental. It is intended for science and engineering graduate students, both currently enrolled and prospective. It allows students to obtain recognition for their accomplishments in hydrologic sciences and demonstrates the quantitative multidisciplinary education desired by many prospective employers.

Students can choose to enroll for a full Hydrologic Sciences PhD degree or obtain a hydrologic sciences graduate certificate while concurrently obtaining a master's or doctoral degree in an associated academic department. Prerequisites and course requirements are identical for the PhD degree and graduate certificate.

Students are members of the broader CU-Boulder Geophysical Sciences Program, which has two specialization options: solid-Earth geophysics and hydrologic sciences. All hydrologic sciences students are admitted through one of the participating departments: civil, environmental, and architectural engineering; ecology and evolutionary biology; environmental studies; geography; or geological sciences.

Students may apply for admission either concurrently with their application to one of the participating departments or after admission by a department. The program is designed to encourage students with a variety of undergraduate backgrounds to enter the field. Nevertheless, all students in the program must have a substantial background in math and physics, including fluid dynamics. At the time of acceptance, the student will be informed of any undergraduate deficiencies that they will need to address within the first year in the program.

Most hydrologic sciences students conduct research with participating departments, research institutes, and centers (e.g., INSTAAR), or partner government agency labs in the Boulder area (e.g., USGS and NOAA). Primary supervision of the student's research may be provided by any faculty member approved by the department.

Additional information is available at hydrosciences.colorado.edu/about/index.php, or by contacting the Graduate Coordinator, Hydrologic Sciences Graduate Program, University of Colorado Boulder, 450 UCB, Boulder, CO 80309-0450, hydrgrd@colorado.edu.

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Molecular Biophysics

➤ Certificate Program

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Peace Corps

Peace Corps Master's International Programs

The Graduate School is pleased to announce the initiation of four new Master's International (MI) programs developed in cooperation with the Peace Corps and with four academic units on the Boulder campus:

- geography
- education
- environmental studies
- master of business administration

Students accepted into the graduate programs of these four units may choose to also apply for one of the MI programs that entail both graduate training and Peace Corps service to combine theory with practice while working overseas.

Interested students should begin by consulting the following websites:

- Peace Corps national headquarters: www.peacecorps.gov
- CU-Boulder Peace Corps Recruiting Office: www.colorado.edu/ece/peacecorps/masters.html

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Population Studies

[Certificate Program](#)

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Power Electronics

Power electronics is a key enabling technology in essentially all electronic systems ranging from wireless communication devices, portable and desktop computers, to telecommunication infrastructure systems, renewable energy systems, and industrial systems. The necessity for power electronics technology in these rapidly expanding areas creates a rising need for design engineers equipped with knowledge and skills to follow sound engineering principles and actively participate in multidisciplinary teams. The power electronics field has evolved rapidly with the advances in technology and introduction of many new application areas. As a result, it is likely that the required knowledge and skills were not in the curricula when many of today's professionals were in college. This creates a strong ongoing demand for continuing education of the workforce in the area of power electronics. The certificate program addresses the ongoing demand for skilled power electronics design engineers.

This program offers an opportunity for electrical engineers to obtain the specialized knowledge required to practice power electronics. It is intended for students and engineers having a BS degree in electrical engineering or equivalent.

+ Certificate Program

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Remote Sensing

Remote sensing (satellite and ground-based) is increasingly being used as technique to probe the Earth's atmosphere, ocean, and land surfaces. Probing of other planets is accomplished largely by satellite remote sensing. Given national priorities in such areas as climate and global change, the interest in remote sensing will only increase with time.

Remote sensing is a relatively new academic subject, with few universities having any sort of an organized curriculum. The purpose of formalizing the CU remote sensing curriculum is to coordinate curricula across campus so that a coherent curriculum in remote sensing can be provided to complement and supplement the student's regular degree program. An additional purpose is to encourage multidisciplinary education of the students in the area of remote sensing.

Graduate students, research staff, and faculty work on a wide variety of topics, ranging from the theory of remote sensing to its application. These applications include: use of satellite remote sensing to determine ocean surface temperature and heat fluxes; use of surface radar to improve the determination of clouds and precipitation from satellite; determination of surface biological characteristics and productivity from satellite; mapping of land use from satellite; mapping of surface landform and topographical features; searching for locations of buried artifacts; use of surface radar to determine upper atmosphere wind motions; and aircraft remote sensing to assess the validity of satellite retrieval algorithms of surface and atmospheric characteristics.

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Renewable and Sustainable Energy

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Science and Technology Policy

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Software Engineering

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Telecommunications

[+ Graduate Degree Program\(s\)](#)

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Women and Gender Studies

[Certificate Program](#)

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Faculty: English

| Name | Title | Education |
|-------------------------|--|--|
| PROUDFIT, Charles L. | professor emeritus | |
| RANGARAJAN, Padma | assistant professor | BA, Pomona College; PhD, University of California, Berkeley. |
| RIVERA, John-Michael | associate professor | BA, University of California, Berkeley; MA, University of Houston; PhD, University of Texas at Austin |
| RIVERS Jr., Julius E. | professor | AB, Davidson College; MS, PhD, University of Oregon |
| ROBERTSON, Benjamin J. | instructor | BA, Pace University; MA, Montclair State University; PhD, State University of New York at Buffalo |
| ROBINSON, Jeffrey C. | professor emeritus | |
| SANER, Reginald A. | professor emeritus | |
| SAWIN, Lewis | professor emeritus | |
| SHEFFIELD, Elisabeth | associate professor | BA, State University of New York at Purchase; MA, State University of New York at Buffalo; MFA, University of California, Irvine; PhD, State University of New York at Buffalo |
| SQUIER, Charles LABARGE | professor emeritus | |
| STEIN, Jordan Alexander | assistant professor | BA, University of California, Santa Cruz; MA, PhD, Johns Hopkins University |
| STEVENSON, John Allen | dean of the Graduate School; professor | BA, Duke University; PhD, University of Virginia |
| SULLIVAN, Patricia | professor (joint, with Program for Writing and Rhetoric) | BA, University of Utah; MA, PhD, Ohio State University |
| TOULOUSE, Teresa | professor | AB, Oberlin College; AM, PhD, Harvard University |
| TSENG, Sandy | instructor | BA, Dickenson College; MFA, University of Pittsburg |
| WHITE, Eric | associate professor | BA, Columbia University; MA, Cambridge University; MA, PhD, University of California, Berkeley |
| WIDMANN, R L | associate professor | BA, University of Wisconsin; AM, PhD, University of Illinois |
| WINKIEL, Laura | associate professor | BBA, PhD, University of Notre Dame; MA, New York University |

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|-------------------|---------------------|--|
| WINOKUR, Mark | associate professor | BA, Brandeis University; MA, PhD, University of California, Berkeley |
| WRENN, John H. | professor emeritus | |
| WRIGHT, Constance | professor emerita | |
| YOUNGQUIST, Paul | professor | BA, University of Colorado; MA, PhD, University of Virginia |
| ZEMKA, Sue A. | professor | BA, Saint Louis University; PhD, Stanford University |

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Faculty: Molecular, Cellular, and Developmental Biology

| Name | Title | Education |
|-------------------|---------------------|---|
| YARUS, Michael J. | professor emeritus | |
| YI, Rui | assistant professor | BS, College of Life Science; PhD, Peking University |



Faculty: Physics

| Name | Title | Education |
|------------------------|---|---|
| McELROY, Kyle | assistant professor | BA, PhD, University of California, Berkeley |
| MIZUSHIMA, Masataka | professor emeritus | |
| MUNSAT, Tobin L. | associate professor | BS, University of North Carolina; MA, PhD, Princeton University |
| MURNANE, Margaret | professor | BS, MS, University College, Cork, Ireland; PhD, University of California, Berkeley |
| NAGLE, James | professor | MS, MPhil, PhD, Yale University |
| NAUENBERG, Uriel | professor emeritus | |
| O'SULLIVAN, William J. | professor emeritus | |
| PARKER, Scott E. | professor | BS, University of Wisconsin–Madison; PhD, University of California, Berkeley |
| PERKINS, Katherine | associate professor attendant rank | AB, AM, PhD, Harvard University |
| PETERSON, R. Jerome | professor | BS, PhD, University of Washington |
| PHILLIPSON, Paul E. | professor emeritus | |
| POLLOCK, Steven J. | professor | BS, Massachusetts Institute of Technology; MS, PhD, Stanford University |
| PRICE, John C. | professor | BS, Yale University; PhD, Stanford University |
| RADZIHOVSKY, Leo | professor | BS, MS, Rensselaer Polytechnic Institute; MA, PhD, Harvard University |
| RANKIN, Patricia | associate vice chancellor for research; professor | BSc, PhD, Imperial College, London University |
| RASCHKE, Marcus | associate professor | BS, Universität Bayreuth, Germany; MS, Rutgers University; PhD, Technische Universität, Munich |
| REGAL, Cindy | assistant professor | BA, Lawrence University; PhD, University of Colorado Boulder |
| REY, Ana Maria | assistant professor | PhD, University of Maryland |
| REZNIK, Dmitry | associate professor | BA, Cornell University; PhD, University of Illinois at Urbana-Champaign |
| RITZWOLLER, Michael H. | professor | AB, Marquette University; MA, University of Illinois; MS, University of Wisconsin; PhD, University of California, San Diego |
| | | BS, PhD, Cornell University |

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| ROBERTSON, Scott H. | professor | |
| ROGERS, Charles T. | director, engineering physics; professor | BSc, PhD, Cornell University |
| ROMATSCHKE, Paul | assistant professor | PhD, Technical University of Vienna, Austria |
| SCHIBLI, Thomas | assistant professor | MS, Swiss Federal Institute of Technology, Switzerland; PhD, University of Karlsruhe, Germany |
| SHEPARD, James R. | professor emeritus | |
| SMALYUKH, Ivan | assistant professor | BS, MS, Lviv Polytechnic National University; PhD, Kent State University |
| SMITH, James G. | professor attendant rank | BS, Massachusetts Institute of Technology; PhD, University of California, San Diego |
| SMYTHE, Rodman | professor emeritus | |
| STENSON, Kevin | associate professor | BS, Bates College; PhD, University of Wisconsin–Madison |
| THOMPSON, James | assistant professor adjoint | PhD, Massachusetts Institute of Technology |
| UZDENSKY, Dmitri | assistant professor | MS, Moscow Institute of Physics and Technology; PhD, Princeton University |
| WAGNER, Stephen | associate professor attendant rank | BS, University of Arizona; PhD, Johns Hopkins University |
| WAHR, John M. | professor | BS, University of Michigan; MS, PhD, University of Colorado |
| WIEMAN, Carl E. | distinguished professor | BS, Massachusetts Institute of Technology; PhD, Stanford University |
| WYSS, Walter | professor emeritus | |
| YE, Jun | professor adjoint | BS, Jiao Tong University at Shanghai; MS, University of New Mexico; PhD, University of Colorado Boulder |
| ZHONG, Shijie | associate professor | BS, University of Science and Technology of China, Hefei; MS, Chinese Academy of Sciences, Peking; PhD, University of Michigan, Ann Arbor |
| ZIMMERMAN, Eric D. | associate chair of graduate studies; associate professor | SB, Massachusetts Institute of Technology; PhD, University of Chicago |



Faculty - Psychology and Neuroscience

| Name | Title | Education |
|-----------------------|---|---|
| O'REILLY, Randall C. | professor | BA, Harvard University; PhD, Carnegie Mellon University |
| PARK, Bernadette M. | associate chair; professor | BS, University of Oregon; MA, PhD, Northwestern University |
| PITTMAN-WAGERS, Tina | senior instructor | BA, University of Virginia; MSW, PsyD, University of Denver |
| POLSON, Peter G. | professor emeritus | |
| RAMIREZ, Albert | associate professor emeritus | |
| RHEE, Soo H. | associate professor | BA, Washington University; MA, PhD, Emory University |
| RICHARDSON, Emily D. | assistant research professor | BS, Northern Illinois University; MA, PhD, University of Iowa |
| RUDY, Jerry W. | associate chair, college professor of distinction | BA, George Washington University; MA, University of Richmond; PhD, University of Virginia |
| RYAN, Victor L. | assistant professor emeritus | |
| SHARPLESS, Seth K. | professor emeritus | |
| SILVERN, Louise E. | associate professor | BA, University of California, Berkeley; MA, PhD, University of California, Los Angeles |
| SMUTZLER, Natalie D. | senior instructor | BA, University of Oregon; PhD, Indiana University |
| SPENCER, Robert L. | associate chair, professor | BA, Oral Roberts University; MA, PhD, University of Arizona |
| STALLINGS, Michael C. | associate professor | BA, California State University, Fullerton; PhD, University of Southern California, Los Angeles |
| TAYLOR, Ronald G. | professor emeritus | |
| THOMAS, David R. | professor emeritus | |
| VAN BOVEN, Leaf D. | associate professor | BS, University of Washington; PhD, Cornell University |
| WAGER, Tor | associate professor | BA, Principia College, PhD, University of Michigan |
| WATKINS, Linda R. | distinguished professor | BS, Virginia Polytechnic Institute and State University; PhD, Medical College of Virginia |
| WEATHERLEY, Donald A. | associate professor | BS, MA, Northwestern University; PhD, Stanford University |
| WEHNER, Jeanne M. | professor emerita | |
| WEILAND, Barabar | assistant research professor | BS, University of Missouri; PhD, Oakland University |
| WERTHEIMER, Michael | professor emeritus | |

| | | |
|-------------------|---------------------|---|
| WHISMAN, Mark A. | professor | BS, Colorado State University; MS, PhD, University of Washington |
| WILLCUTT, Erik G. | associate professor | BS, University of California, Irvine; MA, PhD, University of Denver |
| WILSON, James R. | professor emeritus | |

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ARSC-1080 (4) College Writing and Research

Introduces academic and professional genres through the research and inquiry process. Students practice close reading, oral presentation, drafting, synthesis, analysis and research skills in discussion, writing workshops, and one-on-one conferences. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

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ARSC-1081 (1) SASC Coseminar: College Writing and Research

One-credit seminar provides extended instruction in written composition for students enrolled in ARSC 1080. Graded assignments enrich students' understanding of genre, organization, research skills, and grammar. Coreq., ARSC 1080.

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ARSC-1200 (1-3) Topics in Arts and Sciences

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ARSC-1600 (1) The University of Colorado Experience

Provides an effective transition to the university by giving students a solid base for developing scholarship, citizenship, decision making, and involvement in their university community. Topics include academic and campus resources, safety, health, and diversity.

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ARSC-1710 (1) Calculus Bridge Course

Provides motivated pre-calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in pre-calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in high school mathematics. Coreq., MATH 1001/1021.

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ARSC-1720 (1) SASC Coseminar: Calculus Work Group

This 1-credit seminar provides motivated calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in pre-calculus mathematics. Recommended prereq., A/B average in pre-calculus sequence. Coreq., MATH1300.

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ARSC-1800 (3) Methods of Inquiry

Introduces students to methodologies used in different academic disciplines, e.g., how a paleographer dates a manuscript. Course is team-taught. Students must also enroll in two of four co-requisite course sections, all in different areas of the core curriculum. The co-requisite course sections are listed in the online Schedule Planner.

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ARSC-1810 (1) Open Option Seminar: Academic Exploration and Critical Decision Making

Survey the major exploration process in a guided and intentional way, critically evaluate your strengths and interests, learn decision making skills, and learn academic skills necessary to succeed in a major discipline. Complete the course well equipped to declare a major of interest in a timely fashion and to supplement your degree with study abroad, undergraduate research and/or co-curricular experiences. Offered Pass/Fail only. Restricted to Arts and Sciences Open Option students only. Prerequisites: Restricted to Arts and Sciences Open Option students only.

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ARSC-2000 (3) Ways of Knowing: Constructions of Knowledge in the Academy and Beyond

Explores different ways of knowing from interdisciplinary, cross-cultural perspectives. Course begins with personal interrogations of students' primary learning modes. It goes on to examine cultural assumptions about schooling, learning and knowledge, juxtaposing western and eastern philosophies of knowing and looking at how gender, race, class, and other categories of identity shape and interpret concepts of knowledge. Restricted to Norlin Scholars only; department consent required. Same as NRLN 2000. Approved for arts and sciences core curriculum: ideals and values.

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ARSC-2274 (3) Peer Counseling

Introduction to basic peer education and counseling theory and techniques. Students learn experientially by practicing a variety of skills in an informal atmosphere. The material learned is valuable to students professionally (as employee or supervisor in any field or as helping professional) regardless of career path. Students increase self-awareness and apply it to their own lives. Offered Fall semesters only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-3001 (6) Social Engagement & Human Rights: The South Africa Model

Examines the concept of reconciliation from a multidimensional and multidisciplinary approach as it specifically contributes to subjects of difference, inequality, and historical legacies of intractable relations. Using an experiential approach, the study of reconciliation is situated in an international environment in which reconciliation is being practiced and later in the United States context. Recommended prereq., any course with substantive race, class, gender, difference, and inequality emphasis. Offered through Study Abroad Program. Approved for arts and sciences core

curriculum: human diversity.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-3600 (3) Diversity Issues: Higher Education

Uses Internet dialogue, computing, and media technology to improve communication and develop research and inquiry skills and critical thinking. Race, class, gender, and sexual orientation issues are addressed to foster understanding of university codes of inquiry and modes of interaction in scholarly communities. Prereq., admission to McNair Program, junior standing, minimum GPA of 2.50, and strong interest in graduate school).

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-3650 (3) Diversity Issues in Graduate Education

Guides students through research on diversity and retention issues in graduate education. Participants use Tinto's work on academic and social integration as a conceptual framework. Further, students investigate how specific institutions support diversity goals in their graduate programs. Prereq., admission to McNair Program (minimum 2.50 GPA, three recommendation letters, personal statement, strong interest in graduate school).

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-3700 (1-5) McNair Seminar: Research Design

Multidisciplinary course guiding critical thinking as students design a formal investigation. Includes presenting and writing a prospectus. Students revise the prospectus, creating a proposal for funding the research as well as HRC proposals. May be repeated up to 6 total credit hours. Prereq., admission to McNair Program (junior standing, minimum GPA of 2.50, and a strong interest in graduate school).

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-3935 (1-6) Internship

May be repeated up to 6 total credit hours.

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ARSC-4000 (3) Multimedia Applications in Foreign/Second Language Education

Focuses on knowledge and skills in accessing, evaluating, and integrating technology-assisted, mediated material in the teaching and learning of foreign languages. Also focuses on hands-on design and production of instructional software for foreign languages. Recommended prereq., a language-teaching methodology course. Same as ARSC 5000.

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College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-4040 (1-3) Arts and Sciences Special Topics

Same as ARSC 5040.

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ARSC-4700 (1-5) The McNair Seminar: Research Practices and Procedures

Within the range of scholarly modes, student researchers examine discipline-specific rationales for evidence and analysis. Lecturers distinguish popular concepts of investigation from scholarly research. Students learn to take great care describing and discussing methods, findings, interpretations, assertions, and conclusions. May be repeated up to 10 total credit hours. Prereq., admission to McNair Program (junior standing, meeting TRIO guidelines, strong interest in graduate school).

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ARSC-4750 (3) Social Foundations of Professional Life in Washington DC

In this course, students will gain deep exposure to the historical, cultural, and socio-economic traditions and pressures that drive domestic and international policy making in Washington D.C. Students will read widely, prepare papers, and lead discussions on fundamental aspects of Washington's professional life. Course takes place in the nation's capital and is taken in conjunction with a professional internship.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-4909 (2-6) Senior Thesis for Individually Structured Major

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-4910 (1) McNair Practicum: Principles and Practices of University Teaching

Teaches the core principles of pedagogy at the university level and provides students guidance and feedback on constructing a teaching session in collaboration with a faculty mentor. Using the instructional practices of their discipline, students discuss issues university faculty encounter in their quest toward teaching excellence. The expertise of the Graduate Teacher Program, the Preparing Future Faculty Network and the Faculty Teaching Excellence Program will be drawn upon for supplemental resources, seminars and workshops. May be repeated up to 3 total credit hours. Prereq., ARSC 4700. Restricted to McNair Program Students.

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Department

Category

Search by Course Number

Subject

Number

ARSC-1400 (1) MASP Coseminar: Chemistry 1 & 2

Supplements and strengthens student experiences in chemistry. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

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[Miramontes Arts & Sciences Pgr](#)

ARSC-1420 (1) MASP Coseminar: Introduction to EEB

Designed to supplement and strengthen student experiences in EBIO 1210 and 1220. Allows particularly gifted students an opportunity to extend their understanding of the subject and possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1432 (1) MASP Coseminar: Economics

Designed to supplement and strengthen student experiences in microeconomics. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in social science. May be repeated up to 2 total credit hours.

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ARSC-1440 (1) MASP Coseminar: Mathematics

Offers an unusual and essential opportunity for students to receive small-group enrichment and reinforcement. Supplements and strengthens student experiences in mathematics, allowing particularly gifted students an opportunity to extend their understanding of the subject in a supportive environment, and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1460 (1) MASP Coseminar: Introduction to Mcd Biology

Supplements and strengthens student experiences in MCDB 1150 and 2150. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1480 (1) MASP Seminar: Exploration of Public Discourse through the Social Sciences

Fosters an appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, and outside activities illustrate the interconnections between different bodies of knowledge. Emphasizes relationships between the humanities/social sciences and the real world. May be repeated up to 2 total credit hours.

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ARSC-1490 (1) MASP Seminar: Activating the Humanities and Social Sciences

Building on ARSC 1480, enhances students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentation, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is on actively using knowledge of humanities and social sciences in a variety of ways. Prereq., ARSC 1480. May be repeated up to 2 total credit hours.

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ARSC-1492 (1-3) MASP Research Seminar

Building on ARSC 1490, this course seeks to enhance students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentations, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is placed on actively using knowledge of humanities and social science in a variety of ways. May be repeated up to 6 total credit hours.

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ARSC-2400 (1) MASP Coseminar: Organic Chemistry

Supplements and strengthens student experiences in organic chemistry. Allows gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-2470 (1) MASP Coseminar: Physics 1 and 2

Supplements and strengthens student experiences in physics. Allows particularly gifted students an opportunity to extend their understanding of the subjects and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1150 (3) Writing in Arts and Sciences

Emphasizes the development of effective writing skills with instruction provided in expository and analytical writing. Reviews basic elements of grammar, syntax, and composition as needed. May be repeated up to 6 total credit hours. Approved for GT-CO2. Meets MAPS requirement for English. Approved for arts and sciences core curriculum; written communication.

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ARSC-1200 (1-3) Topics in Arts and Sciences

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ARSC-1400 (1) MASP Coseminar: Chemistry 1 & 2

Supplements and strengthens student experiences in chemistry. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1420 (1) MASP Coseminar: Introduction to EEB

Designed to supplement and strengthen student experiences in EBIO 1210 and 1220. Allows particularly gifted students an opportunity to extend their understanding of the subject and possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1432 (1) MASP Coseminar: Economics

Designed to supplement and strengthen student experiences in microeconomics. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in social science. May be repeated up to 2 total credit hours.

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ARSC-1440 (1) MASP Coseminar: Mathematics

Offers an unusual and essential opportunity for students to receive small-group enrichment and reinforcement. Supplements and strengthens student experiences in mathematics, allowing particularly gifted students an opportunity to extend their understanding of the subject in a supportive environment, and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1460 (1) MASP Coseminar: Introduction to Mcd Biology

Supplements and strengthens student experiences in MCDB 1150 and 2150. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-1480 (1) MASP Seminar: Exploration of Public Discourse through the Social Sciences

Fosters an appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, and outside activities illustrate the interconnections between different bodies of knowledge. Emphasizes relationships between the humanities/social sciences and the real world. May be repeated up to 2 total credit hours.

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ARSC-1490 (1) MASP Seminar: Activating the Humanities and Social Sciences

Building on ARSC 1480, enhances students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentation, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is on actively using knowledge of humanities and social sciences in a variety of ways. Prereq., ARSC 1480. May be repeated up to 2 total credit hours.

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ARSC-1492 (1-3) MASP Research Seminar

Building on ARSP 1490, this course seeks to enhance students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentations, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is placed on actively using knowledge of humanities and social science in a variety of ways. May be repeated up to 6 total credit hours.

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ARSC-1600 (1) The University of Colorado Experience

Provides an effective transition to the university by giving students a solid base for developing scholarship, citizenship, decision making, and involvement in their university community. Topics include academic and campus resources, safety, health, and diversity.

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ARSC-1710 (1) Calculus Bridge Course

Provides motivated pre-calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in pre-calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in high school mathematics. Coreq., MATH 1001/1021.

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ARSC-1720 (1) SASC Coseminar: Calculus Work Group

This 1-credit seminar provides motivated calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in pre-calculus mathematics. Recommended prereq., A/B average in pre-calculus sequence. Coreq., MATH1300.

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ARSC-1800 (3) Methods of Inquiry

Introduces students to methodologies used in different academic disciplines, e.g., how a paleographer dates a manuscript. Course is team-taught. Students must also enroll in two of four co-requisite course sections, all in different areas of the core curriculum. The co-requisite course sections are listed in the online Schedule Planner.

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ARSC-1810 (1) Open Option Seminar: Academic Exploration and Critical Decision Making

Survey the major exploration process in a guided and intentional way, critically evaluate your strengths and interests, learn decision making skills, and learn academic skills necessary to succeed in a major discipline. Complete the course well equipped to declare a major of interest in a timely fashion and to supplement your degree with study abroad, undergraduate research and/or co-curricular experiences. Offered Pass/Fail only. Restricted to Arts and Sciences Open Option students only. Prerequisites: Restricted to Arts and Sciences Open Option students only.

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ARSC-2000 (3) Ways of Knowing: Constructions of Knowledge in the Academy and Beyond

Explores different ways of knowing from interdisciplinary, cross-cultural perspectives. Course begins with personal interrogations of students' primary learning modes. It goes on to examine cultural assumptions about schooling, learning and knowledge, juxtaposing western and eastern philosophies of knowing and looking at how gender, race, class, and other categories of identity shape and interpret concepts of knowledge. Restricted to Norlin Scholars only; department consent required. Same as NRLN 2000. Approved for arts and sciences core curriculum: ideals and values.

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ARSC-2274 (3) Peer Counseling

Introduction to basic peer education and counseling theory and techniques. Students learn experientially by practicing a variety of skills in an informal atmosphere. The material learned is valuable to students professionally (as employee or supervisor in any field or as helping professional) regardless of career path. Students increase self-awareness and apply it to their own lives. Offered Fall semesters only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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ARSC-2400 (1) MASP Coseminar: Organic Chemistry

Supplements and strengthens student experiences in organic chemistry. Allows gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-2470 (1) MASP Coseminar: Physics 1 and 2

Supplements and strengthens student experiences in physics. Allows particularly gifted students an opportunity to extend their understanding of the subjects and to explore possible careers in science. May be repeated up to 2 total credit hours.

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ARSC-3001 (6) Social Engagement & Human Rights: The South Africa Model

Examines the concept of reconciliation from a multidimensional and multidisciplinary approach as it specifically contributes to subjects of difference, inequality, and historical legacies of intractable relations. Using an experiential approach, the study of reconciliation is situated in an international environment in which reconciliation is being practiced and later in the United States context. Recommended prereq., any course with substantive race, class, gender, difference, and inequality emphasis. Offered through Study Abroad Program. Approved for arts and sciences core curriculum: human diversity.

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ARSC-3100 (3) Multicultural Perspective and Academic Discourse

Teaches students how to write academic papers related to race, class, gender, sexuality, and other areas of cultural identity. Students acquire expertise on issues through readings, guided discussion, and research and practice oral presentation skills, drafting, and workshopping of papers. Prereq., lower level writing course(s) or waiver. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ARSC-3600 (3) Diversity Issues: Higher Education

Uses Internet dialogue, computing, and media technology to improve communication and develop research and inquiry skills and critical thinking. Race, class, gender, and sexual orientation issues are addressed to foster understanding of university codes of inquiry and modes of interaction in scholarly communities. Prereq., admission to McNair Program, junior standing, minimum GPA of 2.50, and strong interest in graduate school).

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Department

Category

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Number

ARSC-3650 (3) Diversity Issues in Graduate Education

Guides students through research on diversity and retention issues in graduate education. Participants use Tinto's work on academic and social integration as a conceptual framework. Further, students investigate how specific institutions support diversity goals in their graduate programs. Prereq., admission to McNair Program (minimum 2.50 GPA, three recommendation letters, personal statement, strong interest in graduate school).

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ARSC-3700 (1-5) McNair Seminar: Research Design

Multidisciplinary course guiding critical thinking as students design a formal investigation. Includes presenting and writing a prospectus. Students revise the prospectus, creating a proposal for funding the research as well as HRC proposals. May be repeated up to 6 total credit hours. Prereq., admission to McNair Program (junior standing, minimum GPA of 2.50, and a strong interest in graduate school).

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ARSC-3935 (1-6) Internship

May be repeated up to 6 total credit hours.

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ARSC-4000 (3) Multimedia Applications in Foreign/Second Language Education

Focuses on knowledge and skills in accessing, evaluating, and integrating technology-assisted, mediated material in the teaching and learning of foreign languages. Also focuses on hands-on design and production of instructional software for foreign languages. Recommended prereq., a language-teaching methodology course. Same as ARSC 5000.

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ARSC-4040 (1-3) Arts and Sciences Special Topics

Same as ARSC 5040.

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ARSC-4700 (1-5) The McNair Seminar: Research Practices and Procedures

Within the range of scholarly modes, student researchers examine discipline-specific rationales for evidence and analysis. Lecturers distinguish popular concepts of investigation from scholarly research. Students learn to take great care describing and discussing methods, findings, interpretations, assertions, and conclusions. May be repeated up to 10 total credit hours. Prereq., admission to McNair Program (junior standing, meeting TRIO guidelines, strong interest in graduate school).

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ARSC-4750 (3) Social Foundations of Professional Life in Washington DC

In this course, students will gain deep exposure to the historical, cultural, and socio-economic traditions and pressures that drive domestic and international policy making in Washington D.C. Students will read widely, prepare papers, and lead discussions on fundamental aspects of Washington's professional life. Course takes place in the nation's capital and is taken in conjunction with a professional internship.

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ARSC-4909 (2-6) Senior Thesis for Individually Structured Major

May be repeated up to 6 total credit hours.

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ARSC-4910 (1) McNair Practicum: Principles and Practices of University Teaching

Teaches the core principles of pedagogy at the university level and provides students guidance and feedback on constructing a teaching session in collaboration with a faculty mentor. Using the

instructional practices of their discipline, students discuss issues university faculty encounter in their quest toward teaching excellence. The expertise of the Graduate Teacher Program, the Preparing Future Faculty Network and the Faculty Teaching Excellence Program will be drawn upon for supplemental resources, seminars and workshops. May be repeated up to 3 total credit hours. Prereq., ARSC 4700. Restricted to McNair Program Students.

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ARSC-5000 (3) Multimedia Applications in Foreign/Second Language Education

Same as ARSC 4000.

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ARSC-5040 (1-3) Arts and Sciences Special Topics

Same as ARSC 4040.

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ARSC-5050 (3) Graduate Seminar on Applied Behavior Science 1

The first part of a two-semester sequence designed to introduce graduate students in the social sciences to interdisciplinary theory, concepts, and methods as applied to important social problems. Prereq., completion of first year of graduate work in a social science department.

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ARSC-5060 (3) Graduate Seminar on Applied Behavior Science 2

The second part of a two-semester sequence designed to introduce graduate students in the social sciences to interdisciplinary theory, concepts, and methods as applied to important social problems. Prereq., ARSC 5050.

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ASTR-1010 (4) Introductory Astronomy 1

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1000, but with additional lab experience. Also similar to ASTR 1030. Students may receive credit for only one of ASTR 1010, 1000, 1110, or 1030. Meets MAPS requirement for natural science: lab or non-lab. Approved for arts and sciences core curriculum: natural science.

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ASTR-1020 (4) Introductory Astronomy 2

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1200, but with recitation and sequence link to ASTR 1010. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1020, 1200, 1120, or 1040. Prereq., ASTR 1010 or 1000. Approved for arts and sciences core curriculum: natural science.

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ASTR-1030 (4) Accelerated Introductory Astronomy 1

Covers principles of modern astronomy summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1030, 1010, 1000, or 1110. Similar to ASTR 1010 and 1000, but taught at a higher intellectual level, including a significant amount of quantitative analysis. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

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ASTR-1040 (4) Accelerated Introductory Astronomy 2

Covers principles of modern astronomy summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observing sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Includes a recitation. Prereq., ASTR 1030. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1020, 1040, 1200, or 1120. Similar to ASTR 1020 and 1200 but taught at a higher intellectual level including a significant amount of quantitative analysis. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

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ASTR-1200 (3) Stars and Galaxies

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, neutron stars, black holes, interstellar gas, galaxies, quasars, and the structure and origins of the universe. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory. Formerly ASTR 1120. Similar to ASTR 1020, without sequence link to ASTR 1010 or recitation. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1200, 1120, 1020, or 1040. Approved for arts and sciences core curriculum: natural science.

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ASTR-2000 (3) Ancient Astronomies of the World

Documents the numerous ways in which observational astronomy and cosmology have been features of ancient cultures. Includes naked eye astronomy, archaeoastronomy, ethnoastronomy, concepts of time, calendrics, cosmogony, and cosmology. Approved for arts and sciences core curriculum: natural science or human diversity.

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ASTR-2010 (3) Modern Cosmology---Origin and Structure of the Universe

Introduces modern cosmology to nonscience majors. Covers the Big Bang; the age, size, and structure of the universe; and the origin of the elements and of stars, galaxies, the solar system, and life. Approved for arts and sciences core curriculum: natural science.

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ASTR-2020 (3) Introduction to Space Astronomy

Discusses reasons for making astronomical observations from space, scientific goals, practical requirements for placing instruments in space, politics of starting new programs, and selected missions. Prereq., ASTR 1010, 1020, 1000, or 1200. Approved for arts and sciences core curriculum: natural science.

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ASTR-2030 (3) Black Holes

Black holes are one of the most bizarre phenomena of nature. Students are introduced to the predicted properties of black holes, astronomical evidence for their existence and formation, and modern ideas about space, time, and gravity. Approved for the arts and sciences core curriculum: natural science.

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ASTR-2040 (3) The Search for Life in the Universe

Introduces the scientific basis for the possible existence of life elsewhere in the universe. Includes origin and evolution of life on Earth and the search for evidence of life in our solar system, especially Mars and Jupiter's moon Europa. Discusses the conditions necessary for life and whether they might arise on planets around other stars. Same as GEOL 2040. Approved for arts and sciences core curriculum: natural science.

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ASTR-2500 (3) Gateway to Space

Introduces the basics of atmospheric and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Recommended prereqs., APPM 1360 or MATH 2300 and PHYS 1120 or ASTR 1040. Same as ASEN 1400. Similar to ASEN 4500. Prerequisites: Restricted to Astronomy or Physics majors only.

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ASTR-2600 (3) Computational Techniques

Introduces practical research skills and provides orientation to computational tools commonly used in research by astrophysicists and planetary scientists.

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ASTR-2840 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

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ASTR-3300 (3) Extraterrestrial Life

Discusses the scientific basis for the possible existence of extraterrestrial life. Includes origin and evolution of life on Earth; possibility of life elsewhere in the solar system, including Mars; and the possibility of life on planets around other stars. Prereq., one-year sequence in a natural science. Same as GEOL 3300.

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ASTR-3510 (4) Observations and Instrumentation 1

Lab course in astronomical observation and instrumentation. Hands-on exercises include obtaining and analyzing multi-wavelength data, basic optical design and instrumentation, and statistical analysis of data, with emphasis on imaging applications. A significant number of night time observation sessions are required. Prereq. or coreq., Calculus 2 (MATH 2300 or APPM 1360), one year of college physics, and one year of college astronomy. Elective for APS majors. Elective for APS minors on space available basis. Prerequisites: Restricted to Astrophysics (ASTR) majors only.

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ASTR-3520 (4) Observations and Instrumentation 2

Lab course in observation and instrumentation. Hands-on exercises include obtaining and analyzing multi-wavelength data, optical design and instrumentation, and statistical analysis, with emphasis on spectroscopy. A significant number of night time observation sessions are required. Prereq., ASTR 3510 or instructor consent. Elective for APS majors. Elective for APS minors on space available basis. Prerequisites: Restricted to Astrophysics (ASTR) majors only.

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ASTR-3710 (3) Formation & Dynamics of Planetary Systems

Covers the origin of planetary systems and their dynamical evolution. Topics include the physics and chemistry of planetary formation, orbital mechanics, and extrasolar planets. ASTR 3710, 3720, and 3750 may be taken in any order. Prereqs., PHYS 1110 and 1120, and calculus (MATH 1300 and 2300, or APPM 1350 and 1360). Elective for APS major and minor.

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ASTR-3720 (3) Planets and Their Atmospheres

Explores the physics and chemistry of the atmospheres of Mars, Venus, Jupiter, Saturn, and Titan. Examines evolution of the atmospheres of Earth, Venus, and Mars; and the escape of gases from the Galilean satellites, Titan and Mars; the orbital characteristics of moons, planets, and comets. Uses recent results of space exploration. Prereqs., PHYS 1110 and 1120, and either MATH 1300 and 2300, or APPM 1350 and 1360. Same as ATOC 3720. Elective for APS major and minor.

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ASTR-3730 (3) Astrophysics 1---Stellar and Interstellar

ASTR 3730 and 3830 provide a year-long introduction to physical processes, observations, and current research methods in stellar, interstellar, galactic, and extra-galactic astrophysics, with astronomical applications of gravity, radiation processes, spectroscopy, gas dynamics, and plasma physics. Prereqs. or coreqs., PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

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ASTR-3740 (3) Cosmology and Relativity

Special and general relativity as applied to astrophysics, cosmological models, observational cosmology, experimental relativity, and the early universe. Prereqs. or coreqs., PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

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ASTR-3750 (3) Planets, Moons, and Rings

Approaches the physics of planets, emphasizing their surfaces, satellites, and rings. Topics include formation and evolution of planetary surfaces, history of the terrestrial planets, and dynamics of planetary rings. Both ASTR 3720 and ASTR 3750 may be taken for credit in any order. Prereqs., PHYS 1110 and 1120, and calculus (MATH 1300 and 2300, or APPM 1350 and 1360). Elective for APS major and minor.

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ASTR-3760 (3) Solar and Space Physics

Explores the physical processes linking the Sun and planets, emphasizing solar radiative and particulate variability and the response of planetary atmospheres and magnetospheres. Topics include the solar dynamo, solar wind, coronal mass ejections, cosmic ray modulation, magnetospheres, aurora, the space environment, and climate variability. Prereqs./coreqs., PHYS 2130 or 2170 and MATH 2400 or APPM 2350. Recommended prereq., PHYS 3310. Elective for APS major and minor.

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ASTR-3800 (3) Introduction to Scientific Data Analysis and Computing

Covers analytical and numerical techniques used in scientific data analysis, including statistical analysis, error analysis, functional fitting, spectral analysis, image processing, and testing theoretical compliance. Examples are from space-based and ground-based astronomy. Prereqs. or coreqs., ASTR 1040 or equivalent, PHYS 1120 or equivalent, and MATH 2400 or APPM 2350. Elective for APS major.

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ASTR-3830 (3) Astrophysics 2---Galactic and Extragalactic

ASTR 3730 and 3830 provide a year-long introduction to physical processes, observations, and current research methods in stellar, interstellar, galactic, and extragalactic astrophysics, with astronomical applications of gravity, radiation processes, spectroscopy, gas dynamics, and plasma physics. Prereqs. or coreqs., ASTR 3730, and PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

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ASTR-4330 (3) Cosmochemistry

Investigates chemical and isotopic data to understand the composition of the solar system: emphasis on the physical conditions in various objects, time scales for change, chemical and nuclear processes leading to change, observational constraints, and various models that attempt to describe the chemical state and history of cosmological objects in general and the early solar system in particular. Prereq., upper-div undergrad or grad standing in physical science. Recommended prereq., upper-div undergrad CHEM, PHYS, or MATH. Same as ASTR 5330 and GEOL 4330.

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ASTR-4800 (3) Space Science: Practice and Policy

Exposes students to current controversies in science that illustrate the scientific method and the interplay of observation, theory, and science policy. Students research and debate both sides of the issues, which include strategies and spin-offs of space exploration, funding of science, big vs. small science, and scientific heresy and fraud. Prereqs., ASTR 1000 or 1200, or equivalent, or PHYS 1110 and 1120, or PHYS 2010 and 2020.

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ASTR-4840 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-4841 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5110 (4) Atomic and Molecular Processes

Explores the application of quantum physics and statistical mechanics to problems in astrophysics, space physics and planetary science, with an emphasis on radiative processes and spectroscopy of atoms and molecules. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5120 (4) Radiative and Dynamical Processes

An introduction to radiative and dynamical processes aimed at graduate students in astrophysics, space physics and planetary science. Covers transport phenomena, the macroscopic treatment of radiation fields, magnetohydrodynamics and dynamical processes associated with planetary orbits and N-body systems. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5140 (3) Astrophysical and Space Plasmas

Teaches magnetohydrodynamics and a few related areas of plasma physics applied to space and astrophysical systems, including planetary magnetospheres and ionospheres, stars, and interstellar gas in galaxies. Prereq., graduate standing in APS or physics. Same as PHYS 5141. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5150 (3) Introductory Plasma Physics

Includes basic phenomena of ionized gases, static and dynamic shielding, linear waves, instabilities, particles in fields, collisional phenomena, fluid equations, collisionless Boltzman equations, Landau damping, scattering and absorption of radiation in plasmas, elementary nonlinear processes, WKB wave theory, controlled thermonuclear fusion concepts, astrophysical applications, and experimental plasma physics (laboratory). Same as PHYS 5150. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5300 (3) Introduction to Magnetospheres

Introduces solar and stellar winds, and planetary and stellar magnetospheres. Acquaints students with the guiding center theory for particle motion, magnetospheric topology, convection, radiation belts, magnetic storms and substorms, and auroras. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5330 (3) Cosmochemistry

Same as ASTR 4330 and GEOL 5330. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5400 (3) Introduction to Fluid Dynamics

Covers equations of fluid motion relevant to planetary atmospheres and oceans, as well as stellar atmospheres; effects of rotation and viscosity; and vorticity dynamics, boundary layers, and wave motions. Introduces instability theory, nonlinear equilibration, and computational methods in fluid dynamics. Same as ATOC 5400. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5410 (3) Fluid Instabilities, Waves, and Turbulence

Involves linear and nonlinear analyses of small-scale waves and instabilities in stratified fluids, with effects of rotation. Studies internal gravity and acoustic waves with terrestrial, planetary, and astrophysical applications. Also studies thermal and double-diffusive convection, homogeneous and stratified shear flow instabilities. Examines these topics from the onset of small amplitude disturbances to their nonlinear development and equilibration. Prereq., ASTR 5400 or ATOC 5060. Same as ATOC 5410. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5540 (3) Mathematical Methods

Presents an applied mathematics course designed to provide the necessary analytical and numerical background for courses in astrophysics, plasma physics, fluid dynamics, electromagnetism, and radiation transfer. Topics include integration techniques, linear and nonlinear differential equations, WKB and Fourier transform methods, adiabatic invariants, partial differential equations, integral equations, and integrodifferential equations. Draws illustrative examples from the areas of physics listed above. Same as ATOC 5540. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5550 (3) Observations, Data Analysis and Statistics

Introduces multi-wavelength observational techniques, their limitations and effects of various noise sources. Describes basic data handling, error analysis, and statistical tests relevant to modeling. Topics include probability distributions, model-fitting algorithms, confidence intervals, correlations, sampling and convolution. Students derive physical measurements and uncertainties with hands-on analysis of real datasets. Prereq., senior level undergraduate physics or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5560 (3) Radiative Processes in Planetary Atmospheres

Applies radiative transfer theory to problems in planetary atmospheres, with primary emphasis on the Earth's atmosphere; principles of atomic and molecular spectroscopy; infrared band representation; absorption and emission of atmospheric gases; radiation flux and flux divergence computations; radiative transfer and fluid motions; additional applications such as the greenhouse effect; and inversion methods and climate models. Prereq. or coreq., ASTR 5110. Recommended prereq., ATOC 5235. Same as ATOC 5560. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5700 (3) Stellar Structure and Evolution

Examines basic stellar astronomy: stellar classifications, kinematics, populations and distributions, and H-R diagrams. Covers principles of stellar structure, including energy generation and energy transport by radiation and convection. Includes stellar evolution theory, including compact objects. Prereq., Senior Level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5710 (3) High-Energy Astrophysics

Studies astrophysics of UV, x-ray, gamma-ray, and cosmic-ray sources, including fundamentals of radiative and particle processes, neutron stars, black holes, pulsars, quasars, supernovas and their remnants; stellar flares; accretion disks; binary x-ray sources; and other cosmic x-ray sources. Prereq., senior-level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5720 (3) Galaxies

Highlights the classification, structure, content, dynamics, and other observational properties of galaxies, active galaxies, and clusters of galaxies. Discusses Hubble's Law, the cosmic distance scale, and the intergalactic medium. Prereq., senior-level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5730 (3) Stellar Atmospheres and Radiative Transfer

Explores stellar atmospheres: basic stellar atmospheres, spectral line formation, interpretation of stellar spectra, and model atmospheres. Examines solar physics: the Sun as a star, solar cycle, chromospheric and coronal structure, energy balance, magnetic field, and solar wind. Prereqs., ASTR 5110 and undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5740 (3) Interstellar Astrophysics

Highlights structure, dynamics, and ecology of the interstellar medium, stressing the physical mechanisms that govern the thermal, ionization, and dynamic state of the gas and dust; observations at all wavelengths; star formation; and relation to external galaxies. Prereq., ASTR 5110 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5760 (3) Astrophysical Instrumentation

Covers the fundamentals underlying the design, construction, and use of instrumentation used for astrophysical research ranging from radio-wavelengths to gamma rays. Topics include Fourier transforms and their applications, optical design concepts, incoherent and coherent signal detection, electronics and applications, and signal acquisition and processing. Prereq., Senior Level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5770 (3) Cosmology

Studies the smooth universe, including Friedmann-Robertson-Walker metric, Friedmann equations, cosmological parameters, inflation, primordial nucleosynthesis, recombination, and cosmic microwave background. Also studies the lumpy universe, including linear growth of fluctuations, power spectra of CMB and galaxies, dark matter, and large scale flows. Covers galaxy formation and intergalactic medium. Prereq., Senior Level undergraduate physics or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5800 (3) Planetary Surfaces and Interiors

Examines processes operating on the surfaces of solid planets and in their interiors. Emphasizes spacecraft observations, their interpretation, the relationship to similar processes on Earth, the relationship between planetary surfaces and interiors, and the integrated geologic histories of the terrestrial planets and satellites. Prereq., graduate standing in physical sciences or instructor consent. Same as GEOL 5800. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5810 (3) Planetary Atmospheres

Covers the structure, composition, and dynamics of planetary atmospheres. Includes the origin of planetary atmospheres, chemistry and cloud physics, greenhouse effects, climate, and the evolution of planetary atmospheres - past and future. Same as ATOC 5810 and GEOL 5810. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-5820 (3) Origin and Evolution of Planetary Systems

Considers the origin and evolution of planetary systems, including proto-planetary disks, condensation in the solar nebula, composition of meteorites, planetary accretion, comets, asteroids, planetary rings, and extrasolar planets. Applies celestial mechanics to the dynamical evolution of solar system bodies. Prereq., graduate standing in physical sciences or instructor consent. Same as ATOC 5820 and GEOL 5820. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

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ASTR-5830 (3) Topics in Planetary Science

Examines current topics in planetary science, based on recent discoveries, spacecraft observations, and other developments. Focuses on a specific topic each time the course is offered, such as Mars, Venus, Galilean satellites, exobiology, comets, or extrasolar planets. May be taken twice for credit. Same as ATOC 5830 and GEOL 5830. Prerequisites: Restricted to Graduate Students only.

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ASTR-5835 (1) Seminar in Planetary Science

May be repeated up to 4 total credit hours to meet candidacy requirements. Prereq., graduate standing or instructor consent; Senior Level undergraduate physics. Same as ATOC 5835 and GEOL 5835. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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ASTR-5920 (1-6) Reading and Research in Astrophysical and Planetary Sciences

May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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ASTR-6000 (1) Seminar in Astrophysics

Studies current research and research literature on an astrophysical topic. Students and faculty give presentations. Subjects vary each semester. May be repeated for a total of 4 credit hours to meet candidacy requirements. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

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College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-6610 (3) Earth and Planetary Physics 1

Examines mechanics of deformable materials, with applications to earthquake processes. Introduces seismic wave theory. Other topics include inversion of seismic data for the structure, composition, and state of the interior of the Earth. Same as GEOL 6610 and PHYS 6610. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-6620 (3) Earth and Planetary Physics 2

Covers space and surface geodetic techniques as well as potential theory. Other topics are the definition and geophysical interpretation of the geoid and of surface gravity anomalies; isostasy; post-glacial rebound; and tides and the rotation of the Earth. Same as GEOL 6620 and PHYS 6620. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-6630 (3) Earth and Planetary Physics 3

Examines the solar system, emphasizing theories of its origin and meteorites. Highlights distribution of radioactive materials, age dating, heat flow through continents and the ocean floor, internal temperature distribution in the Earth, and mantle convection. Also covers the origin of the oceans and atmosphere. Same as GEOL 6630 and PHYS 6630. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-6650 (1-3) Seminar in Geophysics

Advanced seminar studies in geophysical subjects for graduate students. Same as GEOL 6650 and PHYS 6650. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-6940 (1) Master's Degree Candidate

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-6950 (1-6) Master's Thesis

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-7500 (1-3) Special Topics in Astrophysical and Planetary Sciences

Acquaints students with current research in astrophysical and planetary sciences. Topics vary each semester. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-7920 (1-6) Reading and Research in Astrophysical and Planetary Sciences

May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ASTR-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences



COMR-1100 (1) RAP Community Leadership Practicum

Examines relationships between competent communication and effective leadership in the context of the Communication and Society RAP. Upon completion of the Community Leadership RAP practicum, the student will be able to identify, discuss, demonstrate, and critique effective communication skills as they apply to many different leadership opportunities within the RAP. Restricted to students in the Communication Residential Academic Program.

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COMR-1800 (3) Visual Literacy: Images and Ideologies

Explores the relationship between visual images and cultural values, including how we process visual information, the evolution of conventions in various media, common visual portrayals, and ethical issues. Restricted to students in the Communication Residential Academic Program. Approved for arts and sciences core curriculum: literature and the arts.

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THTR-1009 (3) Introduction to Theatre

Introduces the varieties of theatrical art, past and present, contributions of the various theatrical artists to the total production, and the place of theatre art in today's society. Designed for nonmajors. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
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THTR-1019 (3) Theatre Foundations: Text Analysis and Practice for the Theatre Arts

Introduces fundamental methods of text analysis for the stage, presents common vocabulary and concepts of the theatre event as an art form and how it works, and what playmaking means to those who do it. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Theatre (THTR or TBFA) majors only.

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THTR-2059 (3) Open Topics in Theatre and Drama

Covers topics not otherwise listed in the curriculum. Topics for each semester are specified in the online schedule planner.

[College of Arts & Sciences](#)
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THTR-2849 (1-3) Independent Study

May be repeated up to 3 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-3149 (2) Professional Orientation: Exploring Professional Potentials for Theatre Majors

To explore and identify a wide range of professional opportunities connected to personal strengths and interests in theatre by studying current professional practices, trends and cross-disciplinary connections. Instructor will: provide information/learning needed from representative professionals; open avenues to find/create employment opportunities (including those not limited to theatre related fields) towards internship consideration/post-graduation; and mentor structured self-assessment/professional development. Prereq., THTR 1019. Recommended prereqs., THTR 1105 or 1115.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-3849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4029 (1-12) Cu-Boulder Touring Company

Participation in departmental touring dance company. By audition. May be repeated up to 12 total credit hours. Prereqs., DNCE 2021, 3041, or 4061. Full-year course; course consecutive fall and spring semesters required. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4039 (3) Musical Theatre Repertory

Developed around the learning of complete scenes, songs, and dances that are representative of the major periods and styles within musical comedy from the 1920s to the present. Emphasizes in-class performance. Admission by audition. May be repeated up to six total credit hours. Same as THTR 5039. Prerequisites: Restricted to Theatre (THTR or TBFA) or Dance (DNCE or DBFA) Majors only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4049 (1-4) Problems in Theatre

Opportunity for students to explore, upon consultation with the instructor, areas in theatre that the normal sequence of offerings may not allow. May be repeated up to 9 total credit hours. Same as THTR 5049.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4059 (3) Open Topics in Theatre and Drama

Covers topics not otherwise listed in the curriculum. Topics for each semester are specified in the online Schedule Planner. May be repeated up to 9 total credit hours.

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THTR-4149 (1-3) Theatre Internship

Provides opportunities for theatre majors to explore career opportunities in theatre fields other than, or in addition to, those with performance emphasis. Students apply knowledge and skills developed in their major studies to a practical work experience. Maybe repeated up to 6 total credit hours. Prereq., 30 credit hours in THTR.

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THTR-4849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

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THTR-5039 (3) Musical Theatre Repertory

Same as THTR 4039.

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THTR-5049 (1-4) Problems in Theatre

Same as THTR 4049. Prerequisites: Restricted to Graduate Students only.

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THTR-5849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

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THTR-6009 (1) Research Strategies and Techniques

Examines research methodologies appropriate to the performing arts, particularly theatre and dance. Projects are aimed at familiarizing graduate students with the library and other resources, and the development of thesis and dissertation prospectuses. Same as DNCE 6009. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6849 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6949 (1) Master's Candidate

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6959 (1-6) Master's Thesis

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

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THTR-1009 (3) Introduction to Theatre

Introduces the varieties of theatrical art, past and present, contributions of the various theatrical artists to the total production, and the place of theatre art in today's society. Designed for nonmajors. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

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THTR-1011 (3) Development of Theatre 1: Forms of Classical Theatre and Drama

Examines the interaction of dramatic literature and performance in classical forms of European and Asian theatre, including Greek, Roman, Indian, Japanese, Medieval, and Renaissance European. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [History/Dramaturgy/Directing](#)

THTR-2021 (3) Development of Theatre 2: Forms of Modern Theatre and Drama

Examines the interaction of dramatic literature and performance in European theatre from 1800 to present, with attention to innovators like Ibsen, Strindberg, Stanislavsky, Meyerhold, Pirandello, Brecht, Beckett, and Churchill.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [History/Dramaturgy/Directing](#)

THTR-3011 (3) Development of the American Musical Theatre

Studies the American musical theatre heritage and its relation to the continually changing social milieu. Examines productions, their creators, and performers. Recommended prereq., 3 credits in THTR, DNCE, or MUSC. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences, Leeds School of Business, College of Music or School Journalism and Mass Communication students only.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [History/Dramaturgy/Directing](#)

THTR-3031 (3) Development of Theatre 3: 20th Century International Drama

Introduces 20th century international drama. Discusses selected plays by major African, Asian, and European authors and explores different dramatic traditions and their increasing interactions throughout the 20th century.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4021 (3) Development of Theatre 4: American Theatre and Drama

Explores issues in American theatre and drama in the 19th through 20th centuries. Prereqs., junior or senior standing and at least 12 hours of THTR course work. Similar to THTR 4001. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4041 (3) Women and Theatre of the 20th and 21st Centuries

Explores a body of 20th and 21st century dramatic literature central to the study of women and theatre as well as the study of 20th and 21st century cultural history from a cross-national and multiracial feminist perspective. Major playwrights, particularly women from Asia, Africa, and Europe, are read and discussed. Recommended prereq., THTR 3031. Same as THTR 5041 and WMST 4041.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4051 (3) Playwriting

Introductory course in craft of playwriting; primary focus on technique of developing short plays. Instructor consent required. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4061 (3) Directing

Theory and practice of directing for the stage. Prereqs., THTR 1003 or 2003; THTR 1105 and 1115, and two semesters of THTR 3035.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4081 (3) Senior Seminar

Intellectual and conceptual capstone course for departmental majors with separate sections for theatre and dance students. Course promotes integration of ideas regarding history, criticism, and theory in performance and production. All inquiry throughout the semester relates to the theme of creative process.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5011 (3) Seminar: Theory and Criticism

Studies theories and criticisms of drama and theatrical performances from Plato to post-modernism. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-5031 (3) Russian Theatre

Studies Russian theatre history and the development of Russian drama from the 18th century to the present. Taught in translation.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-5041 (3) Women and Theatre of the 20th and 21st Centuries

Same as THTR 4041 . Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-5051 (3) Special Topics in Theatre History

Detailed study of a particular topic in theatre history (e.g., an era, a style, a country, or an organization). Topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours on different topics. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-5061 (3) Seminar: Asian Performance

Study of live performance forms, theory, and literature throughout Asia: performance history, production styles, and social functions of performance. Background in theatre, dance, or Asian studies recommended. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-5071 (3) Perspectives on Directing

Advanced study of theory and practice of stage directing through examination of the work of leading directors, analysis of texts, and classroom exercises. Prereq., previous directing course work and/or directing experience.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-6011 (3) Global Ancient and Classical Theatre

Studies classical and neoclassical drama in performance, with particular attention to 20th century productions and the critical and scholarly responses to these productions.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6021 (3) On-Stage Studies: English Renaissance Drama

Studies Elizabethan and Jacobean dramatic texts as playscripts for performance, with particular attention to contemporary Shakespeare criticism and landmark Shakespeare productions over the last two centuries.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6031 (3) On-Stage Studies: American Theatre

Studies American drama in performance, with particular attention to critical and scholarly responses to landmark productions of American classics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6041 (3) On-Stage Studies: Modern Theatre

Studies European theatre from 1600 to 1950, with particular attention paid to critical and scholarly responses to landmark productions of classics from the period.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6051 (1-3) Production Research and Practicum: Directing

Allows students to undertake a production project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under faculty supervision and prepare a documented written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced course work in directing and advisor approval. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6071 (3) Seminar: Perspectives on Acting

Art of acting is examined through study of acting theories and practices developed during major periods of theatre history. Examines the variety of theories about acting that remain today.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6081 (3) Seminar in American Theatre: Lesbians and Gays

Studies the portrayal of lesbians and gays in mainstream American theatre during the 20th and 21st centuries, as well as the contributions of gay and lesbian theatre artists during the same period.

College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing

THTR-6091 (1-3) Production Research and Practicum: Dramaturgy

Students undertake a dramaturgical project, normally within the major season, requiring detailed preparatory research, testing of ideas, and public presentation of theories and concepts in practice. Students work under faculty supervision and prepare a documented written report of their project. Prereqs., advanced course work in dramatic literature and advisor approval.

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DNCE-1012 (2) Dance Production 1

Provides the dancer with an introduction to the types of performance venues available today, and their technical systems and equipment. It will also establish an awareness of how technical theatre design arts may be utilized by a choreographer. Restricted to dance majors. Credit not granted for this course and DNCE 2012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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DNCE-5012 (1) Concert Production

Same as DNCE 4012.

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[Production](#)

DNCE-5052 (1-3) Studio Concert

Restricted to dance majors with 87 credit hours or more. Prerequisites: Restricted to Dance graduate students only.

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DNCE-1013 (2) Dance Improvisation

An opportunity for students to develop skills of dance improvisation through the exploration of structured movement problems. Students study selected contemporary dance artists whose work stresses improvisation in performance and/or as a training vehicle. Restricted to dance majors. Formerly DNCE 2013. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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DNCE-2033 (3) Beginning Composition

Introduces the basic elements of dance composition through compositional studies evolved from readings, discussion, and improvisation. Prereq., DNCE 1013 and DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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DNCE-3043 (3) Intermediate Dance Composition

Opportunity for students to increase knowledge and understanding of dance composition elements as they relate to group forms, theme, development, and phrase manipulation. Prereqs., DNCE 2033 and DNCE 2021, 3041 or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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DNCE-4023 (2) Performance Improvisation Techniques

Explores movement and vocal improvisational techniques to enhance creative and performance skills. Helps individuals discover and make accessible the diversity of the human instrument and develops practical tools to broaden expressive range. Same as DNCE 5023. Formerly DNCE 4018.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-4053 (3) Advanced Dance Composition

In-depth approach to composition emphasizing personal invention, solo and group forms; styles based on historical art forms; exploration of the evaluative process. Prereqs., DNCE 3043 and DNCE 2021, 3041, or 4061. Restricted to dance majors. Same as DNCE 5053. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-5023 (2) Performance Improvisation Techniques

Restricted to graduate students. Same as DNCE 4023 with the addition of written analysis and creative assignments. Formerly DNCE 5018. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-5053 (3) Advanced Dance Composition

Same as DNCE 4053. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-6073 (3) Choreography

Covers in-depth practical and theoretical approaches to dance composition for graduate students; solo and group forms; and analysis of historical and contemporary dance works. May be repeated up to 6 total credit hours with different instructors. Restricted to graduate students in dance.

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DNCE-1017 (3) Dance and Popular Culture

Explores and contextualizes contemporary popular culture and dance. Introduces methods of critical analysis that reveal the rich heritage hidden within and around the dances students commonly encounter at the club, on the street, on television, on the big screen and elsewhere in everyday life. Through watching, reading, and discussion, students discover new meaning in their lived cultural experience. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Dance and Cultural Studies](#)

DNCE-1027 (3) Introduction to Dance and Culture

Explores dance's relationship to broad cultural realities such as food getting, sexuality, rites of passage, work, and religion. Topics are explored by looking at several different cultural groups and how their dance functions in relation to the specific topic. (For example, dance as a function of religion could be studied through explorations into Afro-Cuban orisha dances, Bharata Natyam, and Hopi Ghost dancing.) Formerly DNCE 1029. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

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[Theater & Dance](#)
[Dance and Cultural Studies](#)

DNCE-4017 (3) History and Philosophy of Dance

Follows the specific history and narrative of some dance forms (including African, Ballet, Flamenco, Hip Hop, Jazz, and Modern) and traces their development over time. Gives attention to the effect of social, political, economic, and environmental conditions as well as the influence of other dance forms and the impact of specific dance artists and teachers. Restricted to juniors and seniors. Same as DNCE 5017. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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DNCE-4037 (3) Looking at Dance

Focuses on the development of perceptual, descriptive, and analytical skills as well as the ability to apply cultural and critical theory to 20th and 21st century concert dance. Specific pieces of choreography are looked at from a broad range of perspectives. Formerly DNCE 3027. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Theater & Dance | Dance and Cultural Studies

DNCE-5017 (3) History and Philosophy of Dance

Restricted to graduate students. Same as DNCE 4017 with addition of graduate papers and/or a project. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences | Theater & Dance | Dance and Cultural Studies

DNCE-6017 (3) Readings in Dance

Surveys dance literature including an opportunity for graduate students to familiarize themselves with resources, current publications, theoretical materials, and professional organizations in dance. Restricted to graduate students in dance. Formerly DNCE 6019. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences | Theater & Dance | Dance and Cultural Studies

DNCE-6047 (3) Seminar: Dance

Intensive study of selected topics related to the art of dance, dance criticism, dance aesthetics, and dance in relationship to historical, social, and cultural environments with an emphasis on contemporary American forms and their roots. Restricted to graduate students in dance.

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THTR-1011 (3) Development of Theatre 1: Forms of Classical Theatre and Drama

Examines the interaction of dramatic literature and performance in classical forms of European and Asian theatre, including Greek, Roman, Indian, Japanese, Medieval, and Renaissance European. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

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DNCE-1012 (2) Dance Production 1

Provides the dancer with an introduction to the types of performance venues available today, and their technical systems and equipment. It will also establish an awareness of how technical theatre design arts may be utilized by a choreographer. Restricted to dance majors. Credit not granted for this course and DNCE 2012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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DNCE-1013 (2) Dance Improvisation

An opportunity for students to develop skills of dance improvisation through the exploration of structured movement problems. Students study selected contemporary dance artists whose work stresses improvisation in performance and/or as a training vehicle. Restricted to dance majors. Formerly DNCE 2013. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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DNCE-1017 (3) Dance and Popular Culture

Explores and contextualizes contemporary popular culture and dance. Introduces methods of critical analysis that reveal the rich heritage hidden within and around the dances students commonly encounter at the club, on the street, on television, on the big screen and elsewhere in everyday life. Through watching, reading, and discussion, students discover new meaning in their lived cultural experience. Approved for arts and sciences core curriculum: literature and the arts.

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THTR-1019 (3) Theatre Foundations: Text Analysis and Practice for the Theatre Arts

Introduces fundamental methods of text analysis for the stage, presents common vocabulary and concepts of the theatre event as an art form and how it works, and what playmaking means to those who do it. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Theatre (THTR or TBFA) majors only.

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DNCE-1020 (1) Beginning Modern Dance with Experience

Studio course that continues the work from the beginning level on basic concepts and skills in modern dance technique to increase strength, flexibility, and coordination. May be repeated up to 2 total credit hours. Prereq., DNCE 1000.

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DNCE-1091 (1) Modern 1

Introduces basic skills of modern dance. In-class technique work increases muscle strength, flexibility, and coordination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Major Technique](#)

DNCE-1901 (1-3) Technique Practicum

Offers special courses in the technique series. Includes world dance and/or social dance forms. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Major Technique](#)

DNCE-2021 (2) Major Technique

Enrollment by audition only. May be repeated up to 16 total credit hours.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Major Technique](#)

DNCE-2091 (1) Modern 2

Continuation of Modern 1. a developmental sequence of modern dance technique designed to refine the technical/expressive skills required of the professional dancer. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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DNCE-2101 (1) Pointe

Addresses the basic training for the art of dancing "Sur les pointes." Students will learn how to prepare technically, how to take care of the foot and ankle, and will be encouraged to address their personal alignment issues. An historical survey of the development of the pointe technique from the Romantic Age to the present will be discussed and students will be encouraged to attend local ballet performances and/or watch videos of works of both classical and contemporary ballets. May be repeated up to 4 total credit hours. Recommended prereqs., DNCE 3161 or DNCE 4181.

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DNCE-2141 (1) Low Intermediate Ballet

All basic ballet steps should have been mastered, including pirouettes en d'hors and en dedans, knowledge of the principles and placement, and the ability to master simple enchainements. May be repeated up to 2 total credit hours. Prereq., DNCE 1120.

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DNCE-2191 (1) Ballet 2

Intermediate ballet, covering the complete vocabulary of classical ballet technique. Enchainements are of complex structure. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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DNCE-2501 (2) African Dance

Explores the technique, style, and rhythms of various African, Caribbean, and dance forms of the Americas. Music, history, anthropology, and folklore help to enhance the dance and provide a cultural experience. May be repeated up to 6 total credit hours within a term. Same as ETHN 2502.

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DNCE-2701 (2) Contact Improvisation 1

Contact Improvisation is the practice of spontaneously generating movement guided by moment-to-moment physical contact and sharing of weight between two or more dancers. Fundamental skills of contact improvisation will be introduced; rolling, falling, giving and taking weight, use of momentum, and gravity. Skills are developed in both duets and larger groups. Similar to DNCE

4013.

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DNCE-2901 (1-3) Technique Practicum 2

Offers second level classes in the technique series. Topics or forms of dance will include world dance forms and/or social dance forms. May be repeated up to 6 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3001 (2) Intermediate/Advanced Modern Dance

More in-depth study of modern dance concepts. Class technique work more advanced. May be repeated up to 4 total credit hours. Prereq., DNCE 1000 or 1020 or any major technique class ending in "1". No audition required. Formerly DNCE 3040.

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DNCE-3041 (2) Major Technique

Designed for dance majors. Enrollment by audition only. May be repeated up to 16 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3101 (1-3) Ballet Practicum

Practical studio training in ballet at the advanced/professional level with a professional company. May be repeated up to 4 total credit hours. Prereq., DNCE 2141, 3161, or 4181. Designed for dance majors. Enrollment by audition only.

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DNCE-3161 (1) Intermediate Ballet

Covers the general vocabulary of classical ballet technique and enchainements of medium complexity. Multiple pirouettes in all positions are required. Audition required. May be repeated up to 8 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3241 (1) Intermediate Jazz

Designed for the experienced jazz dancer. Includes dance techniques that further improve alignment, strength, flexibility, and coordination within the jazz idiom. Greater emphasis on style and rhythm and challenging dance combinations. May be repeated up to 2 total credit hours. Prereqs., DNCE 1200 and 1220. Formerly DNCE 2241.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3601 (2) Alexander Technique for Actors and Dancers

The Alexander Technique is a method for changing habits that impede the performance of movement and speech. Through class discussions, movement exploration, and individualized hands-on lessons, actors and dancers gain understanding of the technique and its benefits to performance. Restricted to theatre and dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) or Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3801 (2) Major Technique: Multiple Accompanists

Designed for dance majors. Encompasses range of dance forms that require multiple accompanists. Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3901 (1-3) Technique Practicum

Offers special courses in the technique series. Topics or forms of dance will include world dance forms and/or social dance forms. May be repeated up to 6 total credit hours. Instructor consent may be required.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-4012 (1) Concert Production

Provides practical experience in producing formal and informal dance concerts. Introduces basic familiarity with production and promotional responsibilities, backstage and front-of-house duties and procedures. Prereq., DNCE 1012 or equivalent. Restricted to DNCE and DBFA majors. Same as DNCE 5012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-4061 (2) Major Technique

Designed for dance majors. Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-4181 (1) Advanced Ballet

Advanced professional-level classical ballet, covering the complete vocabulary. Enchainements are of complex structure. Audition is required. May be repeated up to 8 total credit hours.

College of Arts & Sciences | Theater & Dance | Major Technique

DNCE-4261 (1) Advanced Jazz Dance Technique

Opportunity for advanced dancers who want to expand their technical skills in the jazz form. Each class includes a standing warm up, floor work for strength and flexibility, adagio combination for line and balance, and a locomotor combination for turns, leaps, rhythm, and fast footwork. Emphasis is placed on technique, musicality, style, and performance. May be repeated up to 4 total credit hours. Same as DNCE 5261.

College of Arts & Sciences | Theater & Dance | Major Technique

DNCE-4701 (2) Contact Improvisation 2

Build upon skills introduced in Beginning Contact Improvisation as we explore the creative possibilities of interacting with the weight of a partner. Emphasis will be placed upon ease and efficiency in partnering, and integrating this work into choreography and performance. Prereq., DNCE 2701. Same as DNCE 5701.

College of Arts & Sciences | Theater & Dance | Major Technique

DNCE-5001 (2) Graduate Technique

Open only to graduate dance majors. May be repeated up to 12 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Theater & Dance | Major Technique

DNCE-5101 (1) Intermediate Graduate Ballet

Open only to graduate dance majors. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Theater & Dance | Major Technique

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THTR-1105 (3) Stage Technologies

Introduces technical production elements and procedures, including materials, organizations, methods and equipment to realize theatrical scenery, properties, lighting and sound. Credit not granted for this course and THTR 1065 or 1075.

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[Theater & Dance](#)
[Theatre Design and Technology](#)

THTR-1115 (3) Costume Technologies

Introduces technical production elements and procedures including materials, organizations, methods and equipment to realize theatrical costuming and make-up. Credit not granted for this course and THTR 1065 or 1075. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Theatre Design and Technology](#)

THTR-2035 (3) Design Fundamentals

Introduces principles and techniques relevant to the expression of dramatic mood and idea through visual elements of the theatre, giving practice in concept development, style selection, and rendering techniques in scenery and costume design.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Theatre Design and Technology](#)

THTR-2105 (3) Introduction to Theatre Design

Introduces the process and procedures of Theatrical Stage Design, including scenery, costumes, lighting and sound design. Course requires project work and graphic skill development. Students learn through hands-on activities and observation.

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THTR-3005 (3) Costume Design 1

Study and application of the principles of design as applied to stage costume, emphasizing texts in analysis and interpretation. Presented in a studio format and project driven. Explores concept development, style selection, and extensive practice in a variety of media and techniques for costume rendering. Prereq., THTR 1115 or instructor consent.

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THTR-3015 (3) Scene Design 1

Examines the process of theatrical scene design from early conception to realization. Course work is project-based. Students are introduced to the crafts of script analysis, conceptualization, design expression, drafting, and 3-D model building.

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THTR-3035 (1-2) Production Practicum

Practical production projects within a designated area of technical theatre, design, stage management, normally related to the department's season. May be repeated up to 8 total credit hours. Prereqs., THTR 1105 and 1115.

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THTR-3045 (3) Stage Management

Covers stage management from the inception of a production concept through the process of mounting a production, focusing on the interrelationships of the various artists involved, management and scheduling of time, and the psychology of handling a wide range of personalities. Prereq., THTR 1105 or instructor consent.

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THTR-3055 (3) Stage Lighting Design 1

Introduces the craft of stage lighting design through experimental lighting labs, lecture/demos, hands-on production experience, and theoretical projects. Subject matter includes aesthetics of light, colortheory, lighting for performance, design graphics, and basic lighting technology. Prereq., THTR 1105 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3075 (3) Sound Design

Study and application of the principles of sound technology and design, emphasizing concepts of electricity, acoustics, equipment, and their application to the stage. Prereq., THTR 1105 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3085 (3) History of Western Fashion

Surveys topics in western dress from ancient civilizations to contemporary time: the garments, accessories, materials, and technologies of personal adornment in the context of philosophical, political, social, and technological change. Priority given to majors. Replaces THTR 2085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4005 (3) Costume Design 2

Advanced studio course building on experiences and techniques studied in THTR 3005, with additional emphases on portfolio quality rendering technique and costume production technology as it affects and is affected by the designer. Prereq., THTR 3005.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4015 (3) Scene Design 2

Advanced projects in theatrical scene design. Provides intensive practice in sketching, rendering, drafting and model-building. Emphasizes portfolio development and preparing the student designer for graduate training or professional work. Prereq., THTR 3015 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4035 (3) Scene Painting

Introduces the craft of scene painting through practical projects. Sessions are in a studio format. Students are trained in traditional methods of scenic art, including layout, representational painting, trompe l'oeil, faux finishing, and related skills. Students are taught about proper tool use and care, paint products, and the profession.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4055 (3) Stage Lighting Design 2

Assumes a basic knowledge of stage lighting; concentrates on advanced technology, processes, and design projects. Prereq., THTR 3055.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4085 (3) Theatre Management

Concentrates on theory and practice of management aspects of the performing arts, emphasizing theatre and dance. Includes marketing, budgeting, house and stage management, audience development, grant writing, unions, and season development. Includes practical experience. Prereqs., THTR 1105 and 1115. Credit not granted for this course and THTR 3065. Same as THTR 5085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4095 (1-3) Special Topics in Theatre Design and Technology

Intensive study of specialized topics in theatre technology and design. Topics and credits specified in the online Schedule Planner. May be repeated up to 12 total credit hours within a term.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4135 (3) Technical Production

Examines the process of and technology for producing theatrical scenery on a limited production timeline. Prereq., THTR 3035. Recommended prereq., THTR 3015 or 3055.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4145 (3) Colloquium in Advanced Design

An advanced theatre design course that emphasizes the collaborative process and advanced design presentation methods. Course work includes completion of several "mock" design projects, with students often working in collaborative teams.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4555 (1-2) Production Studio

Requires participation in a Theatre department production assignment in the areas of design, technology, or management, as well as participation in a semester portfolio review. May be repeated up to 6 total credit hours. Restricted to TBFA majors. Credit not granted for this course and THTR 4065 or 4075. Prerequisites: Restricted to Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-5025 (3) Costume Patterning and Construction

Includes techniques for the patterning and construction of contemporary and period costumes. Hands-on format covers techniques, materials, and equipment particular to theatrical production. Prereqs., THTR 1105 and 1115. Formerly THTR 4025.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-5085 (3) Theatre Management

Same as THTR 4085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-6005 (1-3) Production Research and Practicum: Designing

Allows students to undertake a design project, normally within the theatre season, that requires detailed preparatory research, testing of ideas, and public presentation of theories and concepts in practice. Students work under faculty supervision, and prepare a documented written report and evaluation of the research, design, and realization process, as well as fully rendered designs and/or plots. Projects may be in costumes, lights, or scenery. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

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DNCE-1027 (3) Introduction to Dance and Culture

Explores dance's relationship to broad cultural realities such as food getting, sexuality, rites of passage, work, and religion. Topics are explored by looking at several different cultural groups and how their dance functions in relation to the specific topic. (For example, dance as a function of religion could be studied through explorations into Afro-Cuban orisha dances, Bharata Natyam, and Hopi Ghost dancing.) Formerly DNCE 1029. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Theater & Dance](#) [Dance and Cultural Studies](#)

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DNCE-1091 (1) Modern 1

Introduces basic skills of modern dance. In-class technique work increases muscle strength, flexibility, and coordination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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DNCE-1100 (1) Beginning Ballet

Ballet for beginners; no previous experience required. Stretching, basic barre, simple terre a terre, and jumping steps are learned, as well as alignment and basic extended positions such as arabesque and attitude. Mastery of simple enchainements and rhythmic patterns. May be repeated up to 2 total credit hours.

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THTR-1105 (3) Stage Technologies

Introduces technical production elements and procedures, including materials, organizations, methods and equipment to realize theatrical scenery, properties, lighting and sound. Credit not granted for this course and THTR 1065 or 1075.

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THTR-1115 (3) Costume Technologies

Introduces technical production elements and procedures including materials, organizations, methods and equipment to realize theatrical costuming and make-up. Credit not granted for this course and THTR 1065 or 1075. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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DNCE-1849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged with and advised by a faculty member. Freshman level course. May be repeated up to 7 total credit hours. Same as DNCE 2849, 3849, 4849, 5849.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Independent Study](#)

DNCE-2849 (1-3) Independent Study

Same as DNCE 1849, at the sophomore level.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Independent Study](#)

DNCE-2909 (1-4) Special Topics

Explores topics and research in relation to areas such as technology, environment, teaching methods, performance, world dance, arts in society, and/or criticism that the normal sequence of offerings may not allow. May be repeated up to 7 total credit hours. Same as DNCE 4909 and 5909 at the sophomore level.

[College of Arts & Sciences](#)
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[Independent Study](#)

DNCE-3849 (1-3) Independent Study

Same as DNCE 1849, at the junior level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-4849 (1-3) Independent Study

Same as DNCE 1849, at the senior level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-4909 (1-4) Special Topics

Same as DNCE 2909 and 5909.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-4919 (1-3) Dance Practicum

Project in dance under supervision of senior faculty. May be repeated up to 6 total credit hours. Same as DNCE 5919.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-4939 (1-3) Dance Internship

Provides an opportunity for upper-division dance majors to serve apprenticeships in the community in work areas related to their major interests and career goals. Internships are available in areas such as arts administration, dance therapy, and technical production. May be repeated up to 3 total credit hours. Prereqs., 30 credit hours in dance.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5849 (1-3) Independent Study

Same as DNCE 1849 and DNCE 6849, at the graduate level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5909 (1-4) Special Topics

Same as DNCE 2909 and 4909. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5919 (1-3) Dance Practicum

Project in dance under supervision of senior faculty. May be repeated up to 6 total credit hours. Same as DNCE 4919. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6009 (1) Research Strategies and Techniques

Restricted to graduate students. Same as THTR 6009. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged with and advised by a faculty member. Graduate level course. Same as DNCE 5849.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6919 (1-3) Directed Studies

Explores advanced topics in dance not regularly covered in the curriculum of the graduate program. May be repeated up to 6 total credit hours. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6949 (1) Candidate for Degree

Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6959 (1-6) Master's Thesis

Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6969 (3-6) The Graduate Project

Provides the opportunity for synthesizing the graduate experience through the execution of a project related to the student's major area of interest. Project must be approved by the graduate faculty advisor. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences | Theater & Dance | Independent Study

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DNCE-1120 (1) Beginning Ballet with Experience

Extension of beginning ballet, when basic concepts of ballet have been mastered. Enchainements are of greater complication and variety. Dance vocabulary is more extensive. Pirouettes and more complex musical phrases are expected. May be repeated up to 2 total credit hours. Prereq., DNCE 1100.

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DNCE-1190 (1) Ballet 1

Beginning ballet covering the basic vocabulary of classical ballet technique. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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DNCE-1200 (1) Beginning Jazz Dance

Introduces various styles of movement unique to jazz dance. Students learn fundamental technical dance skills as well as specific jazz vocabulary. Designed for students with little or no dance experience. May be repeated up to 2 total credit hours.

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DNCE-1220 (1) Beginning Jazz with Experience

Further develops work begun in Beginning Jazz. Exercises and jazz dance phrases are more complex. May be repeated up to 2 total credit hours. Prereq., DNCE 1200.

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DNCE-1290 (1) Jazz 1

Introduces jazz dance, consisting of a technique warm-up, locomotion across the floor, and a series of dance phrases developed into a short dance combination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

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DNCE-1849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged with and advised by a faculty member. Freshman level course. May be repeated up to 7 total credit hours. Same as DNCE 2849, 3849, 4849, 5849.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Independent Study](#)

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DNCE-1908 (1) Performance Practicum

Students learn and perform a dance choreographed by a faculty member or graduate student for an informal and/or formal presentation. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Performance](#)

DNCE-2098 (1) Performance/Repertory

Students learn and perform dances from the repertory of guest artists. Offered summers only. May be repeated up to 3 total credit hours.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Performance](#)

DNCE-4038 (1-3) Dance Repertory

Learning and performing dances from the repertory of current faculty members, artists-in-residence, and upon occasion from the repertory of historic modern dancers. Dance majors may repeat up to 9 total credit hours with different instructors. Enrollment by audition only. Same as DNCE 5038.

[College of Arts & Sciences](#)
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DNCE-4128 (1) Pointe and Variation

For the more advanced classical ballet student. Entails working on pointe and learning dances from Classical, Romantic, and Neo-Classical ballets. Enrollment by audition only. May be repeated up to 2 total credit hours. Same as DNCE 5128.

College of Arts & Sciences Theater & Dance Performance

DNCE-5038 (1-3) Dance Repertory

Same as DNCE 4038 except graduate students are required to keep a log of the learning process involved in repertory to document and analyze each work in terms of stylistic differences, musical/sound accompaniment and trends. Dance majors may repeat up to 9 total credit hours with different instructors. Enrollment by audition only. Restricted to graduate students.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Performance

DNCE-5048 (1-4) Touring Dance Ensemble

May be repeated up to 8 total credit hours. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Performance

DNCE-5128 (1) Pointe and Variation

By audition only. Students should have previous experience. Restricted to graduate students. May be repeated up to 2 total credit hours. Same as DNCE 4128.

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DNCE-2005 (3) Movement Awareness and Injury Prevention for the Dancer

Helps dancers understand the prevention and care of common injuries associated with their art. Through various somatic methods, techniques, anatomy, and kinesiology, students learn to reduce tension, improve body usage, and enhance their performance. Prereqs., DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#)
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[Movement Analysis](#)

DNCE-4015 (3) Movement Analysis

Introduces Rudolf Laban's theories of movement and exposes several body therapies to heighten students' awareness of movement as a multifaceted (neuromuscular/spatial/dynamic) event. Emphasizes refinement of movement, observation skills, and improvement of performance. Prereq., DNCE 2005. Restricted to dance majors. Same as DNCE 5015.

[College of Arts & Sciences](#)
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[Movement Analysis](#)

DNCE-5015 (3) Movement Analysis

Restricted to graduate students. Same as DNCE 4015. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Movement Analysis](#)

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DNCE-1901 (1-3) Technique Practicum

Offers special courses in the technique series. Includes world dance and/or social dance forms. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

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DNCE-1908 (1) Performance Practicum

Students learn and perform a dance choreographed by a faculty member or graduate student for an informal and/or formal presentation. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

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THTR-2003 (3) Acting 1

Emphasizes principles of acting, focusing on exercises in relaxation, talking and listening, actions and objectives, and basic concepts of process work. Prerequisites: Restricted to Theatre (THTR, TBFA) Dance (DNCE, DBFA), Film or Arts and Sciences Open Option majors only.

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DNCE-2005 (3) Movement Awareness and Injury Prevention for the Dancer

Helps dancers understand the prevention and care of common injuries associated with their art. Through various somatic methods, techniques, anatomy, and kinesiology, students learn to reduce tension, improve body usage, and enhance their performance. Prereqs., DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Movement Analysis](#)

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THTR-2013 (3) Performance of Literature

Students learn to perceive literary form and content and to translate that perception into classroom performances of selected modern plays and stories. Performances, both solo and ensemble, embody literary texts diverse in terms of gender and ethnicity. Prereqs., 15 credit hours and THTR 1003, 2003 or 2043.

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DNCE-2014 (2) Rhythmic Analysis and Accompaniment

Emphasizes elements of rhythm in relation to dance. Experiences with rhythmic drills, rhythmic notation, and percussion accompaniment for the modern dance class comprise the body of the course. Prereqs., DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#)
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[Music](#)

DNCE-2021 (2) Major Technique

Enrollment by audition only. May be repeated up to 16 total credit hours.

[College of Arts & Sciences](#)
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THTR-2021 (3) Development of Theatre 2: Forms of Modern Theatre and Drama

Examines the interaction of dramatic literature and performance in European theatre from 1800 to present, with attention to innovators like Ibsen, Strindberg, Stanislavsky, Meyerhold, Pirandello, Brecht, Beckett, and Churchill.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[History/Dramaturgy/Directing](#)

DNCE-2033 (3) Beginning Composition

Introduces the basic elements of dance composition through compositional studies evolved from readings, discussion, and improvisation. Prereq., DNCE 1013 and DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

THTR-2035 (3) Design Fundamentals

Introduces principles and techniques relevant to the expression of dramatic mood and idea through visual elements of the theatre, giving practice in concept development, style selection, and rendering techniques in scenery and costume design.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-2043 (3) Voice and Movement for the Stage

Natural resources of the human voice and body are studied as artistic resources for the performing artist. Designed to examine both the process and products of vocal and physical craft work. Prerequisites: Restricted to Theatre (THTR, TBFA) or Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-2059 (3) Open Topics in Theatre and Drama

Covers topics not otherwise listed in the curriculum. Topics for each semester are specified in the online schedule planner.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-2091 (1) Modern 2

Continuation of Modern 1. a developmental sequence of modern dance technique designed to refine the technical/expressive skills required of the professional dancer. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2098 (1) Performance/Repertory

Students learn and perform dances from the repertory of guest artists. Offered summers only. May be repeated up to 3 total credit hours.

College of Arts & Sciences Theater & Dance Performance

DNCE-2101 (1) Pointe

Addresses the basic training for the art of dancing "Sur les pointes." Students will learn how to prepare technically, how to take care of the foot and ankle, and will be encouraged to address their personal alignment issues. An historical survey of the development of the pointe technique from the Romantic Age to the present will be discussed and students will be encouraged to attend local ballet performances and/or watch videos of works of both classical and contemporary ballets. May be repeated up to 4 total credit hours. Recommended prereqs., DNCE 3161 or DNCE 4181.

College of Arts & Sciences Theater & Dance Major Technique

THTR-2105 (3) Introduction to Theatre Design

Introduces the process and procedures of Theatrical Stage Design, including scenery, costumes, lighting and sound design. Course requires project work and graphic skill development. Students learn through hands-on activities and observation.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

DNCE-2141 (1) Low Intermediate Ballet

All basic ballet steps should have been mastered, including pirouettes en d'hors and en dedans, knowledge of the principles and placement, and the ability to master simple enchainements. May be repeated up to 2 total credit hours. Prereq., DNCE 1120.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2191 (1) Ballet 2

Intermediate ballet, covering the complete vocabulary of classical ballet technique. Enchainements are of complex structure. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2290 (1) Jazz 2

Continuation of Jazz 1. Studies coordination, rhythm, style, and advanced body part isolation in depth. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-2501 (2) African Dance

Explores the technique, style, and rhythms of various African, Caribbean, and dance forms of the Americas. Music, history, anthropology, and folklore help to enhance the dance and provide a cultural experience. May be repeated up to 6 total credit hours within a term. Same as ETHN 2502.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2701 (2) Contact Improvisation 1

Contact Improvisation is the practice of spontaneously generating movement guided by moment-to-moment physical contact and sharing of weight between two or more dancers. Fundamental skills of contact improvisation will be introduced; rolling, falling, giving and taking weight, use of momentum, and gravity. Skills are developed in both duets and larger groups. Similar to DNCE 4013.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2849 (1-3) Independent Study

Same as DNCE 1849, at the sophomore level.

College of Arts & Sciences Theater & Dance Independent Study

THTR-2849 (1-3) Independent Study

May be repeated up to 3 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-2901 (1-3) Technique Practicum 2

Offers second level classes in the technique series. Topics or forms of dance will include world dance forms and/or social dance forms. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2909 (1-4) Special Topics

Explores topics and research in relation to areas such as technology, environment, teaching methods, performance, world dance, arts in society, and/or criticism that the normal sequence of offerings may not allow. May be repeated up to 7 total credit hours. Same as DNCE 4909 and 5909 at the sophomore level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-3001 (2) Intermediate/Advanced Modern Dance

More in-depth study of modern dance concepts. Class technique work more advanced. May be repeated up to 4 total credit hours. Prereq., DNCE 1000 or 1020 or any major technique class ending in "1". No audition required. Formerly DNCE 3040.

College of Arts & Sciences Theater & Dance Major Technique

THTR-3005 (3) Costume Design 1

Study and application of the principles of design as applied to stage costume, emphasizing texts in analysis and interpretation. Presented in a studio format and project driven. Explores concept development, style selection, and extensive practice in a variety of media and techniques for costume rendering. Prereq., THTR 1115 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3011 (3) Development of the American Musical Theatre

Studies the American musical theatre heritage and its relation to the continually changing social milieu. Examines productions, their creators, and performers. Recommended prereq., 3 credits in THTR, DNCE, or MUSC. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences, Leeds School of Business, College of Music or School Journalism and Mass Communication students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-3013 (3) Studio 1: Building a Character

Students learn to deepen and develop their proficiency with specific acting techniques. Explores the craft elements of acting, as well as text analysis. Prereq., THTR 2003. Restricted to BFA program in acting or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3015 (3) Scene Design 1

Examines the process of theatrical scene design from early conception to realization. Course work is project-based. Students are introduced to the crafts of script analysis, conceptualization, design expression, drafting, and 3-D model building.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

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THTR-3023 (3) Studio 2: Creating a Role

Continued development of acting technique and tools for play analysis, with particular emphasis on scene study. Special attention will be given to the Master Teachers of Acting and their pedagogies. Prereq., THTR 3013 or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

DNCE-3024 (2) Musical Resources for Dance

Surveys basic musical notation and terminology, elements and forms of music, and historical styles, supported by guided listening to representative works within western musical tradition. Special emphasis on 20th century techniques and on the relationship of various music to dance. Prereq., DNCE 2014. Restricted to dance majors. Prerequisites: Restricted to Dance (DBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Music](#)

THTR-3031 (3) Development of Theatre 3: 20th Century International Drama

Introduces 20th century international drama. Discusses selected plays by major African, Asian, and European authors and explores different dramatic traditions and their increasing interactions throughout the 20th century.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

THTR-3033 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, either within the major season or approved departmental production. Requires detailed preparational research, rehearsal commitments, and public presentation of theories and concepts in practice. Following the performance, students present written reports and evaluations. May be repeated up to 3 total credit hours. Prereq., THTR 2003 or 2043.

College of Arts & Sciences Theater & Dance Performance

THTR-3035 (1-2) Production Practicum

Practical production projects within a designated area of technical theatre, design, stage management, normally related to the department's season. May be repeated up to 8 total credit hours. Prereqs., THTR 1105 and 1115.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3037 (2-3) Shakespeare Practicum

Students are assigned to work with production artisans of the Colorado Shakespeare Festival. While there are many possible areas, production designs for each season determine the number of available positions. May substitute for two credits of THTR 3035. Prereq., THTR 1105 or 1115.

College of Arts & Sciences Theater & Dance Shakespearean Production

DNCE-3041 (2) Major Technique

Designed for dance majors. Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3043 (3) Intermediate Dance Composition

Opportunity for students to increase knowledge and understanding of dance composition elements as they relate to group forms, theme, development, and phrase manipulation. Prereqs., DNCE 2033 and DNCE 2021, 3041 or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

THTR-3043 (3) Advanced Voice for the Stage

Continues the work begun in THTR 2043. Studies advanced vocal techniques with the goal of integrating these skills into the working process of the performing artist. Prereqs., THTR 2043 or instructor consent. Prerequisites: Restricted to Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3045 (3) Stage Management

Covers stage management from the inception of a production concept through the process of mounting a production, focusing on the interrelationships of the various artists involved, management and scheduling of time, and the psychology of handling a wide range of personalities. Prereq., THTR 1105 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3053 (3) Acting 2

Continuation of the techniques introduced in the beginning acting courses (THTR 1003 and 2003). Emphasis is placed on monologues and scene study of contemporary plays. Basic techniques in developing a character are explored. Prereq., THTR 1003 or 2003. Prerequisites: Restricted to Theatre, Music, Music Arts or Film Majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3055 (3) Stage Lighting Design 1

Introduces the craft of stage lighting design through experimental lighting labs, lecture/demos, hands-on production experience, and theoretical projects. Subject matter includes aesthetics of light, color theory, lighting for performance, design graphics, and basic lighting technology. Prereq., THTR 1105 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3075 (3) Sound Design

Study and application of the principles of sound technology and design, emphasizing concepts of electricity, acoustics, equipment, and their application to the stage. Prereq., THTR 1105 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3085 (3) History of Western Fashion

Surveys topics in western dress from ancient civilizations to contemporary time: the garments, accessories, materials, and technologies of personal adornment in the context of philosophical, political, social, and technological change. Priority given to majors. Replaces THTR 2085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

DNCE-3101 (1-3) Ballet Practicum

Practical studio training in ballet at the advanced/professional level with a professional company. May be repeated up to 4 total credit hours. Prereq., DNCE 2141, 3161, or 4181. Designed for dance majors. Enrollment by audition only.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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THTR-3149 (2) Professional Orientation: Exploring Professional Potentials for Theatre Majors

To explore and identify a wide range of professional opportunities connected to personal strengths and interests in theatre by studying current professional practices, trends and cross-disciplinary connections. Instructor will: provide information/learning needed from representative professionals; open avenues to find/create employment opportunities (including those not limited to theatre related fields) towards internship consideration/post-graduation; and mentor structured self-assessment/professional development. Prereq., THTR 1019. Recommended prereqs., THTR 1105 or 1115.

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DNCE-3161 (1) Intermediate Ballet

Covers the general vocabulary of classical ballet technique and enchainements of medium complexity. Multiple pirouettes in all positions are required. Audition required. May be repeated up to 8 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3241 (1) Intermediate Jazz

Designed for the experienced jazz dancer. Includes dance techniques that further improve alignment, strength, flexibility, and coordination within the jazz idiom. Greater emphasis on style and rhythm and challenging dance combinations. May be repeated up to 2 total credit hours. Prereqs., DNCE 1200 and 1220. Formerly DNCE 2241.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3601 (2) Alexander Technique for Actors and Dancers

The Alexander Technique is a method for changing habits that impede the performance of movement and speech. Through class discussions, movement exploration, and individualized hands-on lessons, actors and dancers gain understanding of the technique and its benefits to performance. Restricted to theatre and dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) or Theatre (THTR or TBFA) majors only.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3801 (2) Major Technique: Multiple Accompanists

Designed for dance majors. Encompasses range of dance forms that require multiple accompanists. Enrollment by audition only. May be repeated up to 16 total credit hours.

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| College of Arts & Sciences | Theater & Dance | Major Technique |
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DNCE-3849 (1-3) Independent Study

Same as DNCE 1849, at the junior level.

College of Arts & Sciences Theater & Dance Independent Study

THTR-3849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-3901 (1-3) Technique Practicum

Offers special courses in the technique series. Topics or forms of dance will include world dance forms and/or social dance forms. May be repeated up to 6 total credit hours. Instructor consent may be required.

College of Arts & Sciences Theater & Dance Major Technique

THTR-4005 (3) Costume Design 2

Advanced studio course building on experiences and techniques studied in THTR 3005, with additional emphases on portfolio quality rendering technique and costume production technology as it affects and is affected by the designer. Prereq., THTR 3005.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

DNCE-4012 (1) Concert Production

Provides practical experience in producing formal and informal dance concerts. Introduces basic familiarity with production and promotional responsibilities, backstage and front-of-house duties and procedures. Prereq., DNCE 1012 or equivalent. Restricted to DNCE and DBFA majors. Same as DNCE 5012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Major Technique

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THTR-4013 (3) Studio 3: Acting Shakespeare

In-depth study of Shakespearean texts from the perspective of their demands on the actor, including the conventions and performance styles of Elizabethan theatre. Prereqs., THTR 3013 and 3023, or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

DNCE-4015 (3) Movement Analysis

Introduces Rudolf Laban's theories of movement and exposes several body therapies to heighten students' awareness of movement as a multifaceted (neuromuscular/spatial/dynamic) event. Emphasizes refinement of movement, observation skills, and improvement of performance. Prereq., DNCE 2005. Restricted to dance majors. Same as DNCE 5015.

[College of Arts & Sciences](#) [Theater & Dance](#) [Movement Analysis](#)

THTR-4015 (3) Scene Design 2

Advanced projects in theatrical scene design. Provides intensive practice in sketching, rendering, drafting and model-building. Emphasizes portfolio development and preparing the student designer for graduate training or professional work. Prereq., THTR 3015 or instructor consent.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

DNCE-4016 (3) Creative Dance for Children

Methods course for prospective teachers of creative dance for children. Lectures, readings, and laboratory experiences are followed by observation and teaching in primary grades. Prereqs., DNCE 1013 and 2033. Restricted to dance majors. Same as DNCE 5016. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-4017 (3) History and Philosophy of Dance

Follows the specific history and narrative of some dance forms (including African, Ballet, Flamenco, Hip Hop, Jazz, and Modern) and traces their development over time. Gives attention to the effect of social, political, economic, and environmental conditions as well as the influence of other dance forms and the impact of specific dance artists and teachers. Restricted to juniors and seniors. Same as DNCE 5017. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

THTR-4021 (3) Development of Theatre 4: American Theatre and Drama

Explores issues in American theatre and drama in the 19th through 20th centuries. Prereqs., junior or senior standing and at least 12 hours of THTR course work. Similar to THTR 4001. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-4023 (2) Performance Improvisation Techniques

Explores movement and vocal improvisational techniques to enhance creative and performance skills. Helps individuals discover and make accessible the diversity of the human instrument and develops practical tools to broaden expressive range. Same as DNCE 5023. Formerly DNCE 4018.

College of Arts & Sciences Theater & Dance Creative Process

THTR-4023 (3) Studio 4: Playing with Styles

Studies selected styles of theatre performance such as Greek Drama, Comedy of Manners, Commedia Dell'art, Modern Realism, Theatre of Absurd, and Non-Western Theatre, including vocal and physical style elements. Prereq., THTR 3013, 3023, and 4013, or instructor consent.

College of Arts & Sciences Theater & Dance Performance

THTR-4029 (1-12) Cu-Boulder Touring Company

Participation in departmental touring dance company. By audition. May be repeated up to 12 total credit hours. Prereqs., DNCE 2021, 3041, or 4061. Full-year course; course consecutive fall and spring semesters required. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4033 (3) Advanced Movement for the Stage

Continues the work begun in THTR 2043. Studies the advanced physical techniques with the goal of integrating these skills into the working processes of the performing artist. Prereqs., THTR 2043 or instructor consent.

College of Arts & Sciences Theater & Dance Performance

THTR-4035 (3) Scene Painting

Introduces the craft of scene painting through practical projects. Sessions are in a studio format. Students are trained in traditional methods of scenic art, including layout, representational painting, trompe l'oeil, faux finishing, and related skills. Students are taught about proper tool use and care, paint products, and the profession.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

DNCE-4036 (3) Methods of Teaching Dance

Practical experience in teaching modern dance to the young adult follows theoretical grounding in specific teaching methods. Examines values and goals of dance in education and fundamental movement principles as related to the teaching of technique and improvisation. Prereqs., DNCE 1013 and 2033. Restricted to dance majors. Same as DNCE 5036. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-4037 (3) Looking at Dance

Focuses on the development of perceptual, descriptive, and analytical skills as well as the ability to apply cultural and critical theory to 20th and 21st century concert dance. Specific pieces of choreography are looked at from a broad range of perspectives. Formerly DNCE 3027. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-4038 (1-3) Dance Repertory

Learning and performing dances from the repertory of current faculty members, artists-in-residence, and upon occasion from the repertory of historic modern dancers. Dance majors may repeat up to 9 total credit hours with different instructors. Enrollment by audition only. Same as DNCE 5038.

College of Arts & Sciences Theater & Dance Performance

THTR-4039 (3) Musical Theatre Repertory

Developed around the learning of complete scenes, songs, and dances that are representative of the major periods and styles within musical comedy from the 1920s to the present. Emphasizes in-class performance. Admission by audition. May be repeated up to six total credit hours. Same as THTR 5039. Prerequisites: Restricted to Theatre (THTR or TBFA) or Dance (DNCE or DBFA)

Majors only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4041 (3) Women and Theatre of the 20th and 21st Centuries

Explores a body of 20th and 21st century dramatic literature central to the study of women and theatre as well as the study of 20th and 21st century cultural history from a cross-national and multiracial feminist perspective. Major playwrights, particularly women from Asia, Africa, and Europe, are read and discussed. Recommended prereq., THTR 3031. Same as THTR 5041 and WMST 4041.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4047 (3) Shakespeare Behind the Scenes

Detailed study of script analysis, directing concepts, staging and criticism of the plays being produced by the Colorado Shakespeare Festival.

College of Arts & Sciences Theater & Dance Shakespearean Production

THTR-4049 (1-4) Problems in Theatre

Opportunity for students to explore, upon consultation with the instructor, areas in theatre that the normal sequence of offerings may not allow. May be repeated up to 9 total credit hours. Same as THTR 5049.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4051 (3) Playwriting

Introductory course in craft of playwriting; primary focus on technique of developing short plays. Instructor consent required. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-4053 (3) Advanced Dance Composition

In-depth approach to composition emphasizing personal invention, solo and group forms; styles based on historical art forms; exploration of the evaluative process. Prereqs., DNCE 3043 and DNCE 2021, 3041, or 4061. Restricted to dance majors. Same as DNCE 5053. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

THTR-4055 (3) Stage Lighting Design 2

Assumes a basic knowledge of stage lighting; concentrates on advanced technology, processes, and design projects. Prereq., THTR 3055.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4059 (3) Open Topics in Theatre and Drama

Covers topics not otherwise listed in the curriculum. Topics for each semester are specified in the online Schedule Planner. May be repeated up to 9 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-4061 (2) Major Technique

Designed for dance majors. Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

THTR-4061 (3) Directing

Theory and practice of directing for the stage. Prereqs., THTR 1003 or 2003; THTR 1105 and 1115, and two semesters of THTR 3035.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4063 (3) Audition Techniques

Prepares students for the demands of the acting profession. Trains students in various audition techniques including general auditions, prepared auditions, cold readings, on-camera auditions, and commercial auditions. Shows how to prepare and perfect audition material in a professional and exemplary way. Discusses agents, casting directors, and the process of becoming a professional actor.

College of Arts & Sciences Theater & Dance Performance



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THTR-4073 (3) Performing Voices of Women

Explores theories underlying the "Feminine voice," varied perspectives in prose and poetry, ways of embodying these voices and perspectives in performance forms, and ultimately the students' own voices through creation of autobiographical performance pieces (some to be presented for student audiences). Open to both men and women. Prereq., instructor consent. Same as WMST 4073.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Performance](#)

THTR-4081 (3) Senior Seminar

Intellectual and conceptual capstone course for departmental majors with separate sections for theatre and dance students. Course promotes integration of ideas regarding history, criticism, and theory in performance and production. All inquiry throughout the semester relates to the theme of creative process.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [History/Dramaturgy/Directing](#)

THTR-4085 (3) Theatre Management

Concentrates on theory and practice of management aspects of the performing arts, emphasizing theatre and dance. Includes marketing, budgeting, house and stage management, audience development, grant writing, unions, and season development. Includes practical experience. Prereqs., THTR 1105 and 1115. Credit not granted for this course and THTR 3065. Same as THTR 5085.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Theatre Design and Technology](#)

THTR-4095 (1-3) Special Topics in Theatre Design and Technology

Intensive study of specialized topics in theatre technology and design. Topics and credits specified in the online Schedule Planner. May be repeated up to 12 total credit hours within a term.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4103 (3) Acting for the Camera

Introduces fundamental tools of acting for the camera. Students learn basic film terminology, specific camera acting techniques, and the demands placed on an actor when shooting a film. Uses exercises, scenes, monologues, and readings to provide a solid understanding of how to create a character, analyze a text, utilize important vocabulary, and perform effectively on camera.

Prereq., THTR 1003 or 2003 or instructor consent.

College of Arts & Sciences Theater & Dance Performance

DNCE-4128 (1) Pointe and Variation

For the more advanced classical ballet student. Entails working on pointe and learning dances from Classical, Romantic, and Neo-Classical ballets. Enrollment by audition only. May be repeated up to 2 total credit hours. Same as DNCE 5128.

College of Arts & Sciences Theater & Dance Performance

THTR-4135 (3) Technical Production

Examines the process of and technology for producing theatrical scenery on a limited production timeline. Prereq., THTR 3035. Recommended prereq., THTR 3015 or 3055.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4145 (3) Colloquium in Advanced Design

An advanced theatre design course that emphasizes the collaborative process and advanced design presentation methods. Course work includes completion of several "mock" design projects, with students often working in collaborative teams.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4149 (1-3) Theatre Internship

Provides opportunities for theatre majors to explore career opportunities in theatre fields other than, or in addition to, those with performance emphasis. Students apply knowledge and skills

developed in their major studies to a practical work experience. Maybe repeated up to 6 total credit hours. Prereq., 30 credit hours in THTR.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-4181 (1) Advanced Ballet

Advanced professional-level classical ballet, covering the complete vocabulary. Enchainements are of complex structure. Audition is required. May be repeated up to 8 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

THTR-4193 (3) Studio 5: Creating an Ensemble

Students create an ensemble piece utilizing collaborative approaches. Emphasizes training actors in weaving personal, social, political, and cultural threads into an enactment. Prereqs., THTR 3013, 3023, 4013, 4023, or instructor consent.

College of Arts & Sciences Theater & Dance Performance

DNCE-4261 (1) Advanced Jazz Dance Technique

Opportunity for advanced dancers who want to expand their technical skills in the jazz form. Each class includes a standing warm up, floor work for strength and flexibility, adagio combination for line and balance, and a locomotor combination for turns, leaps, rhythm, and fast footwork. Emphasis is placed on technique, musicality, style, and performance. May be repeated up to 4 total credit hours. Same as DNCE 5261.

College of Arts & Sciences Theater & Dance Major Technique

THTR-4555 (1-2) Production Studio

Requires participation in a Theatre department production assignment in the areas of design, technology, or management, as well as participation in a semester portfolio review. May be repeated upto 6 total credit hours. Restricted to TBFA majors. Credit not granted for this course and THTR 4065 or 4075. Prerequisites: Restricted to Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

DNCE-4701 (2) Contact Improvisation 2

Build upon skills introduced in Beginning Contact Improvisation as we explore the creative possibilities of interacting with the weight of a partner. Emphasis will be placed upon ease and efficiency in partnering, and integrating this work into choreography and performance. Prereq., DNCE 2701. Same as DNCE 5701.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-4849 (1-3) Independent Study

Same as DNCE 1849, at the senior level.

College of Arts & Sciences Theater & Dance Independent Study

THTR-4849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-4909 (1-4) Special Topics

Same as DNCE 2909 and 5909.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-4919 (1-3) Dance Practicum

Project in dance under supervision of senior faculty. May be repeated up to 6 total credit hours. Same as DNCE 5919.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-4939 (1-3) Dance Internship

Provides an opportunity for upper-division dance majors to serve apprenticeships in the community in work areas related to their major interests and career goals. Internships are available in areas such as arts administration, dance therapy, and technical production. May be repeated up to 3 total credit hours. Prereqs., 30 credit hours in dance.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5001 (2) Graduate Technique

Open only to graduate dance majors. May be repeated up to 12 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Major Technique

THTR-5011 (3) Seminar: Theory and Criticism

Studies theories and criticisms of drama and theatrical performances from Plato to post-modernism. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-5012 (1) Concert Production

Same as DNCE 4012.

College of Arts & Sciences Theater & Dance Production

DNCE-5015 (3) Movement Analysis

Restricted to graduate students. Same as DNCE 4015. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Movement Analysis

DNCE-5016 (3) Creative Dance for Children

Restricted to graduate students. Same as DNCE 4016 with addition of readings and a paper. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-5017 (3) History and Philosophy of Dance

Restricted to graduate students. Same as DNCE 4017 with addition of graduate papers and/or a project. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies



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DNCE-5023 (2) Performance Improvisation Techniques

Restricted to graduate students. Same as DNCE 4023 with the addition of written analysis and creative assignments. Formerly DNCE 5018. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Creative Process](#)

THTR-5025 (3) Costume Patterning and Construction

Includes techniques for the patterning and construction of contemporary and period costumes. Hands-on format covers techniques, materials, and equipment particular to theatrical production. Prereqs., THTR 1105 and 1115. Formerly THTR 4025.

[College of Arts & Sciences](#)
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[Theatre Design and Technology](#)

THTR-5031 (3) Russian Theatre

Studies Russian theatre history and the development of Russian drama from the 18th century to the present. Taught in translation.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[History/Dramaturgy/Directing](#)

DNCE-5036 (3) Methods of Teaching Dance

Restricted to graduate students in dance. Same as DNCE 4036 with addition of readings and a paper. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-5038 (1-3) Dance Repertory

Same as DNCE 4038 except graduate students are required to keep a log of the learning process involved in repertory to document and analyze each work in terms of stylistic differences, musical/sound accompaniment and trends. Dance majors may repeat up to 9 total credit hours with different instructors. Enrollment by audition only. Restricted to graduate students.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Performance

THTR-5039 (3) Musical Theatre Repertory

Same as THTR 4039.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-5041 (3) Women and Theatre of the 20th and 21st Centuries

Same as THTR 4041. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-5048 (1-4) Touring Dance Ensemble

May be repeated up to 8 total credit hours. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Performance

THTR-5049 (1-4) Problems in Theatre

Same as THTR 4049. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-5051 (3) Special Topics in Theatre History

Detailed study of a particular topic in theatre history (e.g., an era, a style, a country, or an organization). Topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours on different topics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-5052 (1-3) Studio Concert

Restricted to dance majors with 87 credit hours or more. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Production

DNCE-5053 (3) Advanced Dance Composition

Same as DNCE 4053. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-5056 (2) Graduate Teaching Seminar

Examines practical and philosophical issues in dance education. The goals and content of professional and recreational dance training are considered and strategies for effective teaching practice are discussed. Opportunity for practical application of theoretical material is provided. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Pedagogy

THTR-5061 (3) Seminar: Asian Performance

Study of live performance forms, theory, and literature throughout Asia: performance history, production styles, and social functions of performance. Background in theatre, dance, or Asian studies recommended. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-5064 (2) Music and Dance Seminar: Collaboration

Investigates selected aspects of rhythm, accompaniment, and musical resources for dance and applications to performance, choreography, and teaching. Topics may include movement analysis and rhythmic clarity, self-accompaniment, working with accompanist/composers, relationship of music to dance, and survey of 20th century compositional techniques. Prereq., dance/music experience, or instructor consent. Restricted to graduate students in dance. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Music

THTR-5071 (3) Perspectives on Directing

Advanced study of theory and practice of stage directing through examination of the work of leading directors, analysis of texts, and classroom exercises. Prereq., previous directing course work and/or directing experience.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5085 (3) Theatre Management

Same as THTR 4085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

DNCE-5101 (1) Intermediate Graduate Ballet

Open only to graduate dance majors. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5128 (1) Pointe and Variation

By audition only. Students should have previous experience. Restricted to graduate students. May be repeated up to 2 total credit hours. Same as DNCE 4128.

College of Arts & Sciences Theater & Dance Performance

DNCE-5261 (1) Advanced Jazz Dance Technique

Same as DNCE 4261. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5601 (2) Alexander Technique for Graduate Students

Learn the principles of the Alexander Technique through class discussions, movement exploration, and individualized hands-on-lessons. Discover how to improve their overall functioning and learn to apply the technique to performance and teaching. Prerequisites: Restricted to Dance (DNCE-MFA) or Theatre (THTR or TBFA) graduate students only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5701 (2) Contact Improvisation 2

Same as DNCE 4701.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5801 (2) Grad Technique: Multiple Accompanists

Open only to graduate dance majors. Encompasses range of dance forms that require multiple accompanists. May be repeated up to 12 total units. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5849 (1-3) Independent Study

Same as DNCE 1849 and DNCE 6849, at the graduate level.

College of Arts & Sciences Theater & Dance Independent Study

THTR-5849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

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DNCE-5901 (1-3) Graduate Technique Practicum

Offers special topics and styles in the graduate technique curriculum. Rotating foci include a variety of traditional dance forms from around the world as well as vernacular, recreational, and social dance phenomena indigenous to the U.S. Course meets simultaneously with an undergraduate studio course, and includes both the practical movement experience and scholarly study of specially-chosen issues in dance. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Dance graduate students only.

[College of Arts & Sciences](#)
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[Major Technique](#)

DNCE-5909 (1-4) Special Topics

Same as DNCE 2909 and 4909. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Independent Study](#)

DNCE-5919 (1-3) Dance Practicum

Project in dance under supervision of senior faculty. May be repeated up to 6 total credit hours. Same as DNCE 4919. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Independent Study](#)

THTR-6003 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under

faculty supervision and prepare a written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced studies in acting and advisor approval. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Performance

THTR-6005 (1-3) Production Research and Practicum: Designing

Allows students to undertake a design project, normally within the theatre season, that requires detailed preparatory research, testing of ideas, and public presentation of theories and concepts in practice. Students work under faculty supervision, and prepare a documented written report and evaluation of the research, design, and realization process, as well as fully rendered designs and/or plots. Projects may be in costumes, lights, or scenery. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-6007 (3) Colorado Shakespeare Festival Dramaturgy

Students work as production dramaturgs for the Colorado Shakespeare Festival, developing detailed textual, historical, and critical research for CSF productions, participating in education and outreach programs, and writing production-related articles for publication. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Shakespearean Production

DNCE-6009 (1) Research Strategies and Techniques

Restricted to graduate students. Same as THTR 6009. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

THTR-6009 (1) Research Strategies and Techniques

Examines research methodologies appropriate to the performing arts, particularly theatre and dance. Projects are aimed at familiarizing graduate students with the library and other resources, and the development of thesis and dissertation prospectuses. Same as DNCE 6009. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6011 (3) Global Ancient and Classical Theatre

Studies classical and neoclassical drama in performance, with particular attention to 20th century productions and the critical and scholarly responses to these productions.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-6016 (2) Teaching Lab: Modern Dance

Provides opportunity to apply principles and skills introduced in DNCE 5036. Participating students share the responsibility for teaching a lab class that meets twice a week. Focuses on analysis and evaluation of teaching skills. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-6017 (3) Readings in Dance

Surveys dance literature including an opportunity for graduate students to familiarize themselves with resources, current publications, theoretical materials, and professional organizations in dance. Restricted to graduate students in dance. Formerly DNCE 6019. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

THTR-6021 (3) On-Stage Studies: English Renaissance Drama

Studies Elizabethan and Jacobean dramatic texts as playscripts for performance, with particular attention to contemporary Shakespeare criticism and landmark Shakespeare productions over the last two centuries.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6031 (3) On-Stage Studies: American Theatre

Studies American drama in performance, with particular attention to critical and scholarly responses to landmark productions of American classics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6041 (3) On-Stage Studies: Modern Theatre

Studies European theatre from 1600 to 1950, with particular attention paid to critical and scholarly responses to landmark productions of classics from the period.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

DNCE-6047 (3) Seminar: Dance

Intensive study of selected topics related to the art of dance, dance criticism, dance aesthetics, and dance in relationship to historical, social, and cultural environments with an emphasis on contemporary American forms and their roots. Restricted to graduate students in dance.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

THTR-6051 (1-3) Production Research and Practicum: Directing

Allows students to undertake a production project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under faculty supervision and prepare a documented written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced course work in directing and advisor approval. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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DNCE-6056 (2) Professional Development

Examines current trends, issues, and problems of dance at colleges, in secondary education, in the community, and in professional dance. Explores curriculum development and educational dance trends along with other topics such as freelance work, grant writing, and dance advocacy. Restricted to graduate students in dance. Prerequisites: Restricted to Dance graduate students only.

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| College of Arts & Sciences | Theater & Dance | Pedagogy |
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THTR-6071 (3) Seminar: Perspectives on Acting

Art of acting is examined through study of acting theories and practices developed during major periods of theatre history. Examines the variety of theories about acting that remain today.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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DNCE-6073 (3) Choreography

Covers in-depth practical and theoretical approaches to dance composition for graduate students; solo and group forms; and analysis of historical and contemporary dance works. May be repeated up to 6 total credit hours with different instructors. Restricted to graduate students in dance.

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| College of Arts & Sciences | Theater & Dance | Creative Process |
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THTR-6081 (3) Seminar in American Theatre: Lesbians and Gays

Studies the portrayal of lesbians and gays in mainstream American theatre during the 20th and 21st centuries, as well as the contributions of gay and lesbian theatre artists during the same period.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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THTR-6091 (1-3) Production Research and Practicum: Dramaturgy

Students undertake a dramaturgical project, normally within the major season, requiring detailed preparatory research, testing of ideas, and public presentation of theories and concepts in practice. Students work under faculty supervision and prepare a documented written report of their project. Prereqs., advanced course work in dramatic literature and advisor approval.

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| College of Arts & Sciences | Theater & Dance | History/Dramaturgy/Directing |
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DNCE-6101 (1) Advanced Graduate Ballet

Open only to graduate dance majors. May be repeated up to 6 total credit hours. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-6849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged with and advised by a faculty member. Graduate level course. Same as DNCE 5849.

College of Arts & Sciences Theater & Dance Independent Study

THTR-6849 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

DNCE-6919 (1-3) Directed Studies

Explores advanced topics in dance not regularly covered in the curriculum of the graduate program. May be repeated up to 6 total credit hours. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Independent Study

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Courses

Search by College, Department & Category

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Department

Category

Search by Course Number

Subject

Number

DNCE-6949 (1) Candidate for Degree

Prerequisites: Restricted to Dance graduate students only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Independent Study](#)

THTR-6949 (1) Master's Candidate

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Special Courses in Theatre](#)

DNCE-6959 (1-6) Master's Thesis

Prerequisites: Restricted to Dance graduate students only.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Independent Study](#)

THTR-6959 (1-6) Master's Thesis

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Special Courses in Theatre](#)

DNCE-6969 (3-6) The Graduate Project

Provides the opportunity for synthesizing the graduate experience through the execution of a project related to the student's major area of interest. Project must be approved by the graduate faculty advisor. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Independent Study

THTR-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

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DNCE-2290 (1) Jazz 2

Continuation of Jazz 1. Studies coordination, rhythm, style, and advanced body part isolation in depth. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) | [Theater & Dance](#) | [Nonmajor Technique](#)

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ENVS-2000 (4) Applied Ecology for Environmental Studies

Covers how ecological ideas and principles underlie both the problems and solutions of multiple environmental issues. The ecology of environmental concerns ranging from endangered species to global carbon cycling will be reviewed, including perspectives from physiological, behavioral, population, community, and ecosystem ecology. Prereqs., ENVS 1000 and EBIO 1030, 1040 and 1050, or EBIO 1210, 1220, 1230 and 1240. Recommended prereq., a course in introductory statistics. Similar to EBIO 2040. Credit not granted for this course and EBIO 2040.

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ENVS-2100 (3-4) Topics in Applied Environmental Studies

Covers a variety of topics not currently offered in the curriculum: offered depending on instructor availability and student demand. May be repeated up to 6 total credit hours, provided the topics vary. Prereq., ENVS 1000.

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ENVS-2840 (1-6) Independent Study

Students work with an approved faculty sponsor to explore a topic in greater depth and to pursue an interest that is not offered in the formal curriculum. May be repeated up to 8 total credit hours. Prereq., ENVS 1000.

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ENVS-3001 (3) Sustainable Solutions Consulting

Introduces students to green design, industrial ecology, and life cycle analysis. Students use basic techniques of environmental auditing to analyze the CU-Boulder campus. Prereq., any two-semester science sequence. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

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ENVS-3020 (3) Advanced Writing in Environmental Studies

Offers training in critical thinking and analytical writing skills appropriate to upper-division classes. Writing assignments integrate the subject matter of different topical areas. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

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ENVS-3030 (3-4) Topics in Environmental Social Sciences

Covers a variety of topics that fulfill the social science requirement in the Environmental Studies major. Topics may include human ecology, environment and society, and quantitative environmental social science. Offered depending upon instructor availability and student demand. Prereq., ENVS 1000. Not repeatable for credit.

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ENVS-3032 (3) Environment, Media & Society

Examines how mass media influence our society, specifically with regard to environmental issues and outcomes. Focuses on media influence over environmental politics and policy, environmental public opinion, popular culture, and environmental/scientific knowledge.

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ENVS-3040 (4) Conservation Biology

Applies principles of population ecology, population genetics, biogeography, animal behavior, and paleobiology to the maintenance of biodiversity and natural systems. The resulting theory is then applied to conservation policy and management techniques. Prereq., EBIO 2040 or 2640. Same as EBIO 3040.

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ENVS-3070 (3) Energy and the Environment

Examines contemporary issues in energy consumption and its environmental impact, including fossil fuel use and depletion; nuclear energy and waste disposal; solar, wind, hydroelectric, and other renewable sources; home heating; energy storage; fuel cells; and alternative transportation vehicles. Includes some basic physical concepts and principles that often constrain choices. No background in physics is required. Same as PHYS 3070. Approved for arts and sciences core curriculum: natural science.

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ENVS-3100 (3) Topics in Applied Environmental Studies

Covers a variety of topics not currently offered in the curriculum; offered depending upon instructor availability and student demand. May be repeated up to 6 total credit hours, provided topics vary. Prereq., ENVS 1000.

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ENVS-3103 (3) Applied Environmental Studies: Mining in Four Corners

Explores mining related issues that have pronounced impact on the environment, economy and politics of the Four Corners region. Students apply their basic knowledge of environmental science, policy and values toward the understanding of and productive discourse about the conflicts and opportunities brought about by the mining industry in the Four Corners region. Course includes a seven day field trip, visiting mining and reclamation sites in New Mexico, Utah and Colorado. Fulfills application requirement for Environmental Studies majors. Prereq., ENVS 1000 and one year natural science.

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ENVS-3140 (3) Environmental Ethics

Examines major traditions in moral philosophy to see what light they shed on value issues in environmental policy and the value presuppositions of the economic, ecological, and juridical approaches to the environment. Prereq., sophomore standing or PHIL 1100, 1200, 2200, 3100, or 3200. Same as PHIL 3140. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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ENVS-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Prereq., CHEM 1111 or CHEN 1211 and 1221. Same as CVEN 3434.

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ENVS-3520 (3) Energy and Climate Change: An Interdisciplinary Approach

Examines sources of energy and other resources in light of their availability, use, environmental impact, as well as their impact on policy, economics and values. As fossil fuels are the dominant energy source today, particular emphasis is placed on climate impacts and the carbon cycle. All material is assessed through the lenses of the physical sciences, policy, ethics and economics. Prereq., a two-course sequence in any natural science. May be repeated up to 6 total credit hours. Same as GEOL 3520. Approved for arts and sciences core curriculum: natural science.

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ENVS-3521 (3) Climate Politics and Policy

Engages students in exploring the realm of contemporary and historical climate policy at three major levels of government: international, national and local/regional. Through course lectures, discussions, readings and activities, students will become conversant with the actors, mechanisms and concerns involved in climate policy and politics, and develop their own sense of how to judge the success of climate policies.. Prereq., ENVS 1000.

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ENVS-3600 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Prereqs., ATOC 1050 and 1060, or ATOC 3300/GEOG 3301, or GEOG 1001 and 1-semester calculus. Same as GEOG 3601 and ATOC 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Environmental Studies or Geography majors only.

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ENVS-3621 (3) Energy Policy and Society

Examines how society makes decisions about energy, and how these decisions affect the environment and the economy. Uses tools from policy analysis, economics, and other disciplines to build an in-depth understanding of energy's role in U.S. contemporary society. Recommended prereqs., ENVS/PHYS 3070.

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ENVS-3800 (3) The Art of Research: The Essential Elements of Research in Environmental Studies

Introduces students to the practice of doing research in environmental studies. Examines how to define a research problem, select methods, design research, construct arguments and evaluate others' research. Aims to familiarize students with the process of doing research and enable them to proceed with confidence in pursuing their own research topics. Recommended for juniors planning to write ENVS honors theses. Prereq., ENVS 1000. Recommended prereq., ENVS 3020. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ENVS-3930 (1-3) Internship

Relates classroom theory to practice. Provides academically supervised opportunities for environmental studies majors to work in public and private organizations on projects related to students' career goals. May be repeated up to 6 total credit hours.

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ENVS-4027 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between (a) inequality and democratic decision making and (b) undemocratic decision making; U.S. and corporate food and energy policy; and global environmental degradation. The course also focuses on the role that global inequality plays in fostering environmental degradation. Restricted to juniors/seniors. Same as SOCY 4027.

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ENVS-4050 (2-4) Field Studies in Environmental Sciences

Includes field-oriented courses offered at irregular intervals during academic year or during summer sessions.

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ENVS-4100 (1-3) Topics in Environmental Policy

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated upto 9 total credit hours, provided the topics vary. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ENVS-4120 (1-3) Topics in Environmental Sciences

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated upto 6 total credit hours, provided the topics vary. Restricted to junior and senior ENVS majors.

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ENVS-4160 (3) Introduction to Biogeochemistry

Covers fundamentals of biogeochemical cycling, emphasizing water, carbon, and nutrient dynamics in terrestrial ecosystems; chemical interactions of atmosphere, biosphere, lithosphere, and hydrosphere, and natural and human-managed environments. Prereqs., GEOL 3320 or EBIO 3270, and CHEM 1011 or higher. Same as GEOL and EBIO 4160

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Courses

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ENVS-4201 (3) Biometeorology

Introduces this interdisciplinary science, studying the interactions between atmospheric processes and living organisms (plants, animals, and humans). Discusses how organisms adapt to a changing environment. Uses a practical, problem-solving approach to explore these interactions. Prereq., GEOG 1001. Same as GEOG 4201.

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ENVS-4795 (3) Field Methods in Zoology and Botany

Class covers research and field methods for biological disciplines associated with natural history museums: vertebrates, invertebrates, and plants. Emphasis is on field research techniques: observations, sampling, collection and preservation methods, and comparisons among elevation zones. Includes 5 field labs, 2 weekend trips, 5 lab practica, experience with several taxonomic experts, and individual research projects. Same as MUSM 4795 and EBIO 4795.

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ENVS-4800 (3) Critical Thinking in Environmental Studies

Examines a specific environmental topic in depth, synthesizing information from complex and controversial issues. Different course sections present different topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) or Geography (GEOG) majors only.

[College of Arts & Sciences](#) | [Environmental Studies](#)

ENVS-4840 (1-6) Independent Study

May be repeated up to 8 total credit hours. Prereq., ENVS 1000.

College of Arts & Sciences | Environmental Studies

ENVS-4990 (3) Senior Thesis

Supervised project involving original research. Open only to environmental studies majors with at least a 3.30 GPA. Thesis proposal must be accepted by honors chairman. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Environmental Studies

ENVS-5000 (3) Policy, Science, and the Environment

Introduction to methodologies of the policy sciences with emphasis on applications to environmental issues; role of science in decision making; professional roles and responsibilities as a policy analyst. Prerequisites: Restricted to Environmental Studies (ENVS) or Political Science (PSCI) graduate students only.

College of Arts & Sciences | Environmental Studies

ENVS-5001 (3) Environmental Philosophy

A survey of the major philosophical issues in environmental studies, comprising key issues in environmental ethics, in environmental political philosophy, and in the philosophy of biology and ecology.

College of Arts & Sciences | Environmental Studies

ENVS-5100 (1-3) Special Topics in Environmental Studies

A variety of topics not currently offered in curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary.

College of Arts & Sciences | Environmental Studies

ENVS-5110 (1-3) Topics in Environmental Social Science and Humanities

Covers various topics in the social sciences and humanities in environmental studies. Prerequisites: Restricted to Arts and Sciences, Journalism, Law or Business Graduate Students only.

College of Arts & Sciences | Environmental Studies

ENVS-5120 (1-3) Topics in Quantitative Methods

Covers a wide range of quantitative methods used in policy research and their applications. Topics may include decision-making under uncertainty, fundamentals of microeconomics, mathematics

of economic efficiency, cost-benefit analysis, system optimization, budgeting, fundamentals of probability, risk assessment, risk perception, risk communication, and decision analysis. Includes practical exercises, as well as readings and discussion, of various strengths and weaknesses of the different methods.

College of Arts & Sciences | Environmental Studies

ENVS-5710 (3) Introduction to the Policy Sciences

Provides an introduction to the policy sciences as a distinctive tradition within the policy field. Emphasizes the use of conceptual tools to improve analysis of complex problems. Teaches problem-solving framework that students apply to an issue of their choice. Restricted to graduate students or instructor consent required. Same as PSCI 7016. Prerequisites: Restricted to Environmental Studies (ENVS) or Political Science (PSCI) graduate students only.

College of Arts & Sciences | Environmental Studies

ENVS-5720 (3) The Problem Orientation

Teaches basic problem-solving framework for policy analysis. Emphasizes applications to develop policy recommendations for issues selected by students. Includes group projects. Restricted to graduate students or instructor consent required. Same as PSCI 7026.

College of Arts & Sciences | Environmental Studies

ENVS-5730 (3) Introduction to the Policy Sciences: The Decision Process

Provides policy sciences frameworks for analyzing policy processes and designing political strategies to influence those processes in the direction of the preferred alternative. Emphasizes applications to problems selected by students for term projects. Restricted to graduate students or instructor consent required. Same as PSCI 7036. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Environmental Studies

ENVS-5740 (3) Context-Sensitive Research Methods

Prepares students to conduct research on topics where data is not obvious or not easily available. Encompasses variations in context and setting as part of data observations. Methods include interviewing protocols, interpretive methods, cluster analyses, case study methodologies, and textual analyses. Restricted to graduate students or instructor consent required. Same as PSCI 7116.

College of Arts & Sciences | Environmental Studies

ENVS-5810 (3) Water Resources and Environmental Sustainability

Assesses impacts of climate variability and regional growth on western U.S. water resources, and examines successes and failures of different management strategies, as well as ways that science is used and misused in support of water management. Prerequisites: Restricted to Arts and Sciences, Journalism, Law or Business Graduate Students only.

College of Arts & Sciences | Environmental Studies

ENVS-5820 (3) Renewable Energy Policy

Examines the technology, policy and politics of renewables. Technology includes the resource, science, and engineering aspects of renewables. Policy includes various policy levers used to influence renewables. Politics refers to political settings of renewables: how decision-makers perceive them, who supports/opposes policies, and how policies progress through the political process. Prereq., an introductory energy science and technology course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Environmental Studies

ENVS-5830 (3) Critical Issues in Climate and the Environment

Discusses current issues such as ozone depletion, global warming, and air quality for graduate students in nonscientific fields. Provides the scientific background necessary to understand, follow scientific developments, and critically evaluate these issues. Same as ATOC 5000. Credit not granted for this course and ATOC 4800.

College of Arts & Sciences | Environmental Studies

ENVS-5840 (3) Global Biogeochemical Cycles

Focuses on the cycling of elements at the global scale with a particular emphasis on human modification of biogeochemical cycles. Major biogeochemical cycles, their past dynamics, present changes, and potential future scenarios will be addressed. Ecosystem to global-scale model of the earth system will be discussed, along with global-scale measurements of element fluxes from satellites, aircraft, and measurement networks. Prereq., general chemistry, some organic chemistry. Same as GEOL 5305. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Environmental Studies

ENVS-5909 (1-3) Independent Study

Only 3 hours of independent study can be used towards degree requirements. May be repeated up to 6 total credit hours for different topics. Prereq., department and instructor consent.

College of Arts & Sciences | Environmental Studies

ENVS-5930 (2) Internship

Provides academically supervised opportunities for environmental studies majors to work in public and private organizations on projects related to the students' research and career goals, and to relate classroom theory to practice.

College of Arts & Sciences | Environmental Studies

ENVS-6007 (3) Foundations of Environmental Sociology

Provides overview of environmental sociological theory and research including topics such as: public environmental perception, concern, and knowledge; environmentalism as a social movement; environmental justice; energy, technology, and risk; human dimensions of environmental change; and natural hazards and disasters. Same as SOCY 6007.

College of Arts & Sciences | Environmental Studies

ENVS-6940 (1) Master's Degree Candidacy

College of Arts & Sciences | Environmental Studies

ENVS-6950 (1-6) Master's Thesis

College of Arts & Sciences | Environmental Studies

ENVS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Environmental Studies



FARR-1004 (1) Teen Trials and Tribulations in Literature

Discusses major themes and literary strategies in coming-of-age literature. Pass/fail only.

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FARR-1005 (1) Comics and the Interpretive Arts

Explores comic books as literature and visual art. This course will introduce methods of literary analysis and apply them to a specific medium of art: the comic book. Discussions will focus on content and form and will be guided by questions about the way in which art is defined and categorized. Graded pass/fail.

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FARR-1561 (1) Nonviolence for Everyday: Meditation and Other Helpful Habits

Focuses on the challenge of achieving nonviolence on a day-to-day basis by maintaining a peaceful, focused frame of mind. Explores ways to train the mind, including methods that may aid healing.

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FARR-1562 (3) Gandhi's Satyagraha: Love in Action for Humans and Other Creatures

Class texts and films explore social justice and structural violence in regard to humans, animals, and the environment in the light of a Gandhian approach to these issues. Outreach work in the community is included.

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FARR-2000 (3) Farrand Seminar in the Humanities and the Arts

Studies an aspect of the theme of the Center for Humanities Seminar Program each year, and will be taught by faculty participants in the Center's fellowship program. May be repeated up to 6 total credit hours.

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FARR-2002 (3) Literature of Lifewriting

Examines how diverse writers have created unique personal narratives that shape memory within historical and social contexts. Works will exemplify a wide range of literary structures, themes, and strategies that enhance an understanding of the genre and provide models for students' own lifewriting assignments. Approved for arts and sciences core curriculum: literature and the arts.

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FARR-2510 (3) Exploring Good and Evil through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in film. Same as FILM 2613. Approved for arts and sciences core curriculum: ideals and values.

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FARR-2660 (3) Ethics of Ambition

Through selected readings in classical literature on ethics and through more contemporary readings and films, examines critical ethical issues relating to the competition of ambitions and the alternative styles of choosing between courses of action in a dangerous world. Uses biographies of those whose lives illustrate both the complexities of the struggles and the profundity of possibilities. Considers the unconscious metaphors of national visions and ambitions, the competing ethics of ends and means, the conflicting ambitions in a pluralistic society, and the transcendent ambitions of visionaries. Same as HONR 2250. Approved for arts and sciences core curriculum: ideals and values.

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FARR-2820 (3) Future of the Spaceship Earth

Examines major ecological, political, economic, cultural, legal, and ethical issues that will shape the future. Students consider how their decisions influence the future, and reflect on fundamental values and ideals underlying the search for solutions to these complex problems. Approved for the arts and sciences core curriculum: ideals and values.

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GSAP-1500 (1) Community Engagement

Facilitates community-level service and volunteer opportunities in the University, Boulder-Denver area, and Colorado communities for first-year students. Participants will learn how to conduct basic community research and will design their own volunteer, service, or internship plan in conjunction with the instructor and the class, targeting a university center, community nonprofit, local business, government agency, or international institution.

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GSAP-2010 (3) Introduction to National Security

Introduces national and international security studies to students. The course examines the influence of history, domestic politics, and international events and actors on the development of security policy. Restricted to G-RAP students.

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GSAP-2020 (3) Topics in National Security

Intensive look at specific security issues. This course focuses on the specifics of policy development related to functional issues (political, military, and non-traditional) as well as threats within specific regions. In addition to class, each student will focus on an issue of their choosing. Recommended prereq., GSAP 2010. Restricted to G-RAP students.

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IAFS-3000 (3) Special Topics in International Affairs

Junior or senior level umbrella seminar spanning a variety of topics relevant to the study of international affairs. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) International Affairs (IAFS) or Political Science (PSCI) majors only.

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IAFS-3300 (6) Economy, Politics and Society in the Middle East

Presents social, political, and economic aspects of the Middle East through a faculty-led study abroad in Kuwait, featuring interactions with officials, bankers, university faculty and local students. Offers a unique opportunity to discuss issues with Kuwaitis at Diwanas, as well as to participate in seminars and workshops with local faculty and representatives of Kuwaiti businesses and government agencies. Prereq., ECON 1000 or 2020.

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IAFS-3500 (3) French Connections: Contemporary France and America in Historical Context

This faculty-led Global Seminar, based in Bordeaux, France provides an opportunity to compare French history and contemporary culture, economy, and culture to that of the United States. Lectures in Boulder and Bordeaux are supplemented by interactions with officials, scholars, business leaders, interest groups, and organizations in France. Offered through Study Abroad. IAFS 3500 and HIST 4190 are the same course. Approved for arts and sciences core curriculum: historical context.

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IAFS-3600 (3) Global Secular Jewish Societies

This course uses a transnational lens to explore contemporary debates about Jewish people, places, and practices of identity and community. Drawing on history, sociology, international studies, and anthropology, we'll think about the places that Jewish people have called 'home,' and what has made, or continues to make those places 'Jewish.' We'll also explore diverse practices that express the extraordinary varieties of Jewishness (such as building synagogues, food markets, and coffeehouses, creating film festivals, going on heritage travel, Israeli-Jewish backpacking, the creation of online websites and blogs, and creating new urban kibbutzim). Restricted to students with minimum 57 units completed. JWST 3600 and IAFS 3600 are the same course.

Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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IAFS-3610 (3) Topics in International Affairs and Jewish Studies

Explores topics in international affairs as it relates to Jewish culture and society. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. IAFS 3610 and JWST 3610 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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IAFS-3650 (3) History of Arab-Israeli Conflict

Explores the origins and development of the Arab-Israeli conflict. Traces Arab-Jewish/Israeli relations from the nineteenth century through the Palestine Mandate, the evolution of Arab and Jewish nationalism, and the creation of Israel to the present day. Recommended prereqs., HIST 1308; HIST/JWST 1828. Same as JWST 3650. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) International Affairs (IAFS) majors only.

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IAFS-4500 (3) The Post-Cold War World

Capstone course for international affairs majors. Examines the ways in which the end of the Cold War, the collapse of failed states, and the rise of global terrorism changed the world. Studies how peoples, governments and nongovernmental organizations face new social, political, economic and security challenges in an era of globalization. Includes discussion, oral reports, critical book reviews, and research papers. Prerequisites: Restricted to students with 87-180 credits (Senior) International Affairs (IAFS) majors only.

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IAFS-4800 (3) Honors Seminar in International Affairs

Directed research course tailored to the particular research interests of the students enrolled. Devoted to research methodology and the development of students' research. Prereq., 3.30 GPA and 3.40 IAFS GPA .

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IAFS-4810 (3) Honors in International Affairs

Continuation of IAFS 4800. Students complete original research begun in the fall and write and defend their honors thesis. They meet regularly with the instructor. Prereq., IAFS 4800.

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IAFS-4900 (1-6) Independent Study in International Affairs

Provides an opportunity to earn academic credit for learning outside the formal class structure. Students interested in doing in-depth research propose a research project to a faculty sponsor and then work closely with that person to produce a piece of original research. Prereq., upper-division standing, GPA of 3.00 or better, grade of C or better in all lower-division courses, and at least 6 upper-division courses. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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IAFS-4930 (3-6) Internship in International Affairs

Working individually under the guidance of a public or private organization, students are assigned to projects selected for their academic suitability. Written assignments occur throughout the semester. Prereq., departmental approval.

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INVS-1513 (3) Civic Engagement: Using the Electoral Process as a Tool for Social Change

Designed to educate and inspire civic engagement primarily in the area of electoral politics. Examines various explanations of why people participate in the electoral process and whom they choose to support. Develops the practical skills necessary to participate successfully in the electoral arena. Through a service component, the course provides experience working on a campaign and mobilizing others to participate in the electoral process.

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INVS-1523 (3) Civic Engagement: Democracy as a Tool for Social Change

Educates and inspires students for civic engagement by exploring democratic values and the rights and responsibilities of citizenship. Develops theoretical knowledge and practical skills for participating in a diverse democratic society, especially at the state level, through analyzing legislative issues, making policy recommendations, and advocating for change. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

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PACS-2500 (3) Introduction to Peace and Conflict Studies

Introduces the field of peace and conflict studies. Examines causes and dynamics of conflict and violence (interpersonal to global), peace institutions and research, peace movements, nonviolence, and careers in conflict resolution and peacemaking.

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INVS-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as EDUC 2919. Approved for arts and sciences core curriculum: human diversity.

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INVS-3000 (3-4) Innovative Approaches to Contemporary Issues through Service Learning

Explores creative approaches for solving complex social and environmental issues, with a focus on peace and population. Students analyze the root causes of issues in theoretical and historical contexts, and develop their understanding of effective and innovative approaches to change. This course has a requirement of community service. Recommended prereq., upper-division status. Approved for arts and sciences core curriculum: contemporary societies.

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INVS-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and SOCY 3001 or 3011, or instructor consent. Same as SOCY 3041.

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INVS-3100 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of Western and non-Western theories and practices. Community service required. Same as ETHN 3201 and LDSP 3100. Approved for arts and sciences core curriculum: human diversity.

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INVS-3302 (3) Facilitating Peaceful Community Change

Students gain knowledge and skills that enable them to become effective facilitators of community goals. Focuses on understanding the processes of community building with a multicultural emphasis. Students are encouraged to apply concepts of life experiences and to examine themselves as potential change agents. Theory and summer experience are integrated. Prereq., admission to INVST. Coreq., INVS 3912. Same as WMST 3302.

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INVS-3402 (3) Implementing Social and Environmental Change

Examines grassroots innovation as a means for creating comprehensive, solution-based strategies to address social and environmental problems. Students develop an understanding of the root causes of problems, identify how changes are initiated at the grassroots level, and learn the theory and practice of effective and responsible change efforts.

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PACS-3800 (3) Topics in Peace and Conflict Studies

Content varies depending on instructor. May provide an overview of the field, cover scientific, philosophical, or historical approaches, or analyze a specific substantive topic. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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INVS-3931 (1-6) The Community Leadership Internship, Part 1

Develops students' competencies as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community supervisor, students learn organizational leadership skills by serving as volunteer staff members at community-based organizations. Prereq., admission into INVST CLP. May be repeated up to 6 total credit hours.

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INVS-3932 (1-6) Community Leadership Internship, Part 2

Develops students' competencies as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community supervisor, students learn organizational leadership skills by serving as volunteer staff members at community-based organizations. May be repeated up to 6 total credit hours.

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INVS-4302 (3) Critical Thinking in Development

Exposes students to current issues in the political economy of development. Subjects range from globalization, democratization, and economic development. Specifically, the course explores the international and domestic determinants of economic development with special reference to currency markets, foreign direct investment, trade, and democratization. Prereqs., PSCI 2012 or IAFS 1000, ECON 2010 and 2020, and one upper-division PSCI course. Same as PSCI 4732. Approved for arts and sciences core curriculum: contemporary societies.

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INVS-4402 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision-making, civil society, cooperative economics, ecology and decentralized powers. Restricted to senior SOCY/PSCI majors. Same as SOCY 4111.

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PACS-4500 (3) Senior Seminar in Peace and Conflict Studies

Examines specific theoretical perspectives in peace and conflict studies and conducts in-depth research projects using a case-study approach. Emphasizes using critical thinking skills in writing and class discussion. Case study examples include: U.S. violence, peacemaking/keeping in ethnonationalist conflicts, environmental conflict resolution. Prereq., PACS 2500 or instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior).

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INVS-4931 (1-6) Community Leadership in Action, Part 1

Develops students' expertise as community leaders. Under the supervision of an instructor and a community advisor, students design a community-based project. Prereqs., admission to INVST CLP, INVS 3931 and 3932. May be repeated up to 6 total credit hours.

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INVS-4932 (1-6) Community Leadership in Action, Part 2

Develops students' expertise as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community advisor, students learn organizational and leadership skills by designing, implementing and evaluating a community-based project. First-hand experience provides students with a deepened understanding of the complex issues facing humanity, and competence with solution-based strategies. May be repeated up to 6 total credit hours. INVS 4932 and LDSP 4932 are the same course.

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INVS-4999 (1-6) Teaching Social Justice

INVS students participate in a service-learning practicum under the supervision of an INVS instructor. They explore teaching strategies for implementing concrete educational goals. Focusing on the issues of social justice and social change, they learn how to encourage higher levels of creativity and analysis among students. May be repeated up to 6 total credit hours. Prereqs., INVS 3302, 3931/3932, 4931/4932 (min grade B-).

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LDSP-1561 (1) Compassionate Leadership and Mindfulness

Explores various practices and traditions that lead to a balanced, physical, mental, emotional, and spiritual life critical to the practice of effective leadership. May be repeated up to 3 total credit hours.

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LDSP-1571 (1) Topics in Leadership

Examines the complex nature of leadership by applying knowledge and practice to contemporary and social issues. May be repeated up to 3 total credit hours.

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LDSP-2820 (3) Multilevel Issue in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with a special emphasis on leadership and ethical implications. Same as PRLC 2820.

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LDSP-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Leadership RAP or the INVST program. See also LDSP 2920. May be repeated up to 6 total credit hours. Same as EDUC 2910.

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LDSP-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Leadership RAP or the INVST program. See also LDSP 2910. May be repeated up to 6 total credit hours. Same as EDUC 2920.

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LDSP-3100 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of western and non-western theories and practices. Same as ETHN 3201 and INVS 3100. Approved for arts and sciences core curriculum: human diversity.

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LDSP-4010 (4) Critical Issues in Leadership: A Capstone Course

Critical thinking is fundamental to leadership competency. Leaders must have skill at making judgments and collecting information from a variety of sources and on topics in which they have limited expertise. Students read, discuss, and write critical evaluations of contemporary leadership theory from an ethical, military, community building, and business perspective. Prereq., a minimum of 10 credit hours towards the Leadership Certificate completed.

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LDSP-4932 (1-6) Community Leadership in Action, Part 2

Develops students' expertise as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community advisor, students learn organizational and leadership skills by designing, implementing and evaluating a community-based project. First-hand experience provides students with a deepened understanding of the complex issues facing humanity, and competence with solution-based strategies. May be repeated up to 6 total credit hours. INVS 4932 and LDSP 4932 are the same course.

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LING-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. Same as CLAS 1010.

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LING-1020 (3) Languages of the World

Explores the issue of human diversity by examining how languages vary around the world. Outlines historical, geographic, and typological classifications of languages across human societies, and the criteria used by linguists for grouping them into language families. Theorizes the relationship between linguistic and cognitive diversity, and considers the impact of language death on humanity. No formal training in linguistics is required. Approved for arts and sciences core curriculum: human diversity.

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ESLG-1130 (2) Accent Reduction for Foreign Students

Provides oral activities with authentic English materials to reduce accents and to increase intelligibility for U.S. academic situations. Evaluates individual problem areas and includes one-on-one meetings with the native-speaker instructor. Improves overall articulation and fluency. Does not fulfill humanities or major requirements.

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ESLG-1140 (2) Presentation Skills for International Students

Provides instruction and practice to improve classroom oral communication skills necessary for effective participation in the U.S. academic setting, either as an international TA or RA, graduate or undergraduate student. Evaluates individual problem areas and includes digital audio and video recording with extensive feedback from the native-speaker instructor. Improves oral competence and listening comprehension in English for international students. Recommended prereq., ESLG 1130.

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ESLG-1210 (2) Academic Writing for Foreign Students

Addresses the development of paragraphs and full-length essays. Focus areas include organization and style, grammar and vocabulary, and conventions of academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Improves fluency and precision in academic writing. Does not fulfill humanities or major requirements.

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ESLG-1222 (2) Advanced Written Composition for Foreign Students

Continued practice in academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Preparation, writing, and revising of a full-length academic term/research paper or work on chapters for a master's thesis or doctoral dissertation. Does not fulfill humanities or major requirements. Prereq., ESLG 1210 or instructor consent.

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ESLG-1410 (3) Academic English Skills for International Students

Provides instruction and practice to improve academic speaking and writing skills for effective participation in U.S. universities. Speaking includes accent reduction and effective communication through oral activities and recordings. Writing addresses development of paragraphs and full-length papers, including organization, grammar, vocabulary, incorporating ideas of others, and citing sources appropriately. Instructor feedback helps students improve fluency in both speaking and writing. Restricted to non-native speakers of English. Credit not granted for this course and ESLG 1130 or ESLG 1210.

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LING-1500 (3) Understanding Grammar

Presents fundamentals of grammar in the Western tradition. Emphasizes making concepts and uses of grammar (as exemplified in English and closely related foreign languages) understandable to the nonspecialist.

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LING-1900 (1) Service Learning Practicum: Adult Literacy

Practicum for selected students in LING 1000. Provides practical experience of the impact of illiteracy on individuals, families, and the community at large. Coregistration in service learning recitation is required. Coreq., LING 1000.

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LING-2000 (3) Introduction to Linguistics

Introduces the study of languages as structural systems. Principles of sound patterns, word formation, meaning, and sentence structure. Gives attention to language acquisition, psycholinguistics, language families, dialects, historical change in languages, and different language types. Meets MAPS requirement for social science: general.

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LING-2400 (3) Language and Gender

Familiarizes students with the effects of gender on language use; discusses popular beliefs and scholarly theories about language and communication. Provides students with tools for exploring the role of language and gender. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

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LING-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as PSYC 3005, PHIL 3310, and CSCI 3702.

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LING-3100 (3) Language Sound Structures

Introduces the sounds of languages and their organization into phonological structures. Prereq., LING 2000 or equivalent.

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LING-3220 (3) American Indian Languages in their Social and Cultural Context

A sampling of the many languages and cultures found in America before Columbus. Emphasizes those living in what eventually became the United States, but also gives attention to the languages and higher civilizations of Latin America. Prereq., junior standing. Approved for arts and sciences core curriculum: human diversity.

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LING-3430 (3) Semantics

Theoretical and practical study of meaning in natural language. Considers both semantic theories and semantic phenomena from diverse languages. Does not treat techniques for improving the use of language. Prereq., LING 2000 or equivalent. Prerequisites: Restricted to junior or senior Linguistics (LING) majors only.

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LING-3545 (3) World Language Policies

Examines the economic and sociopolitical impact of choosing English vs. other languages in the U.S. Introduces the study of language policies, rights, and planning in other countries, including the worldwide use of English in social, business, and legal contexts.

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LING-3800 (1-4) Special Topics in Linguistics

Intensive study of a selected area or problem in linguistics. May be repeated up to 9 total credit hours.

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LING-4100 (3) Perspectives on Language

Provides extended critical examination of a few selected issues, chosen each term for their general interest and relevance, e.g., the relation between language and thought, or human language vs. animal languages, and computer languages. Prereqs., LING 2000 or equivalent, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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LING-4220 (3) Language and Mind

Studies processes of perceiving speech, interpreting it as meaningful, and expressing intentions to communicate as utterances. Emphasizes roles of the brain and of perceptual and motor systems. Writing, gestural, and animal communicative systems also are treated. Prereqs., PSYC 1001 and LING 2000. Same as PSYC 4220.

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LING-4420 (3) Morphology and Syntax

Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world's languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages. Prereq., Ling 2000 or equivalent. Same as Ling 5420.

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LING-4450 (3) Introduction to Formal Syntax

Introduces formal generative grammar, including determining constituent structure, drawing trees, writing rules, understanding the properties of the lexicon and their interaction with syntax, X-bar theory and its modifications, and movement analysis. Prereq., LING 4420 on instructor consent.

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LING-4560 (3) Language Development

Emphasizes acquisition of language by young children; development in later years and into adulthood is also treated. Particular attention given to roles of environment and of neurophysiological endowment in learning to communicate with words, sentences, and narratives. Restricted to Linguistics majors only. Prereqs., LING 2000 and PSYC 1001. Same as SLHS 4560 and PSYC 4560. Prerequisites: Restricted to Linguistics Majors only.

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LING-4610 (3) English Structure for Teachers of English to Speakers of Other Languages

Description of morphological and syntactic categories and structures of English. Prereq., LING 2000. Same as LING 5610.

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LING-4800 (3) Language and Culture

Principles of language structure and how language and culture interrelate; how language and language use are affected by culture; and how culture may be affected by use of, or contact with, particular languages. Prereq., junior standing. Same as ANTH 4800.

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Courses

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Number

LING-4830 (3) Honors Thesis

Required for students who elect departmental honors. Students write an honors thesis based on independent research under the direction of a faculty member. May be repeated up to 7 total credit hours.

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LING-4900 (1-3) Independent Study

May be repeated up to 8 total credit hours.

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LING-5030 (3) Linguistic Phonetics

Introduces practical and theoretical aspects of phonetics. Provides training in recognition and production of speech sounds, and instruction on fundamentals of articulatory, acoustic, and auditory phonetics. Prerequisites: Restricted to Graduate Students only.

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LING-5200 (3) Introduction to Computational Corpus Linguistics

Covers computer methods for doing linguistics with on-line corpora. Includes extensive introduction (with lab) to the Python programming language, UNIX corpus tools, concordance programs, syntactic treebanks, propbanks, and corpora for discourse and phonology research. Restricted to graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-5300 (3) Research in Psycholinguistics

After a general introduction to issues and research methods in psycholinguistics (language production and comprehension, language and cognition, language acquisition), several major current research topics, such as models of speech production, and theories of brain specialization for language, are explored. Prereq., at least one graduate-level course in linguistics, psychology, or computer science. Same as PSYC 5300.

College of Arts & Sciences | Linguistics

LING-5410 (3) Phonology

Studies sound systems of language. Introduces both principles of organization of sound systems and major kinds of phonological structures found worldwide. Provides extensive practice in applying phonological principles to data analysis. Prereq., LING 5030 or instructor consent.

College of Arts & Sciences | Linguistics

LING-5420 (3) Morphology and Syntax

Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world's languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages. Same as LING 4420. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-5430 (3) Semantics and Pragmatics

Explores fundamental concepts of semantics and pragmatics, including theories of communication and meaning, representation, conversational implications, speech acts, and discourse structure. Prereq., LING 5420 or instructor consent.

College of Arts & Sciences | Linguistics

LING-5570 (3) Introduction to Diachronic Linguistics

Familiarizes students with terminology, methods, and theories dealing with phenomena of language change through time. Prereq., LING 5410 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-5610 (3) English Structure for Teachers of English to Speakers of Other Languages

Description of morphological and syntactic categories and structures of English. Prereq., graduate standing. Same as LING 4610.

College of Arts & Sciences | Linguistics

LING-5620 (3) Teaching ESL Pronunciation

Examines the phonetics and phonology of American English (including prosody) and explores techniques for teaching pronunciation skills to non-native speakers. Treats both general issues and specific problems for students from particular language backgrounds. Prereq., LING 3100 or LING 5030 and 5410. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-5630 (3) Methods and Materials for Teaching English as an Additional Language

Provides an overview of methods and materials for teaching English as an additional language, along with opportunities for students to observe, discuss and analyze these in relation to language teaching principles, linguistic considerations, and global and local contexts. Aimed primarily at the teaching of English to nonnative speaking adults, the course also addresses second and foreign language teaching generally. Recommended prereqs., LING 5610 or 5620. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-5832 (3) Natural Language Processing

Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs. Prereq., graduate standing or instructor consent. Same as CSCI 5832.

College of Arts & Sciences | Linguistics

LING-5900 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Linguistics

LING-5910 (1-3) TESOL Practicum

Provides observation and supervised teaching experiences in classroom and other contexts involving the teaching of English to speakers of other languages, especially adults and young adult learners in settings outside K-12. Meetings provide opportunities to debrief and to consult on teaching practice; help students connect theory, methods and practice; and support a professional teaching portfolio process. May be repeated up to 6 total credit hours. Prereq., LING 4610/5610 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-6200 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. Prereqs., graduate standing, or at least one course at the 3000-level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science will be presumed. Same as CSCI 6402, EDUC 6504, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-6300 (3) Topics in Language Use

Discusses current issues and research in a selected area related to language use and function. Sample topics include conversational interaction, language policy, language content, and sociolinguistic variation. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-6310 (3) Sociolinguistic Analysis

Serves as an advanced introduction to the empirical and theoretical foundations of contemporary sociolinguistic analysis, with special emphasis on linguistic variation, diversity and change. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-6320 (3) Linguistic Anthropology

Serves as an advanced introduction to the empirical and theoretical foundations of contemporary linguistic anthropology, with special emphasis on the ways in which culture and society emerge semiotically through language and discourse. Same as ANTH 6320. Prerequisites: Restricted to Graduate Students only.

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LING-6450 (3) Syntactic Analysis

Introduces the major constructs used by formal theories of syntax to capture the relationship between meaning and syntactic form and uses data from diverse languages to explore the universality of these constructs. Restricted to graduate students.

College of Arts & Sciences | Linguistics

LING-6510 (3) Language Structures

Surveys the structure of one or more languages, emphasizing understanding how parts of the language interact. Designed to supplement courses in which parts of languages are used to illustrate theoretical claims. Prereqs., LING 5410 and 5420. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-6520 (3) Topics in Comparative Linguistics

Students compare and contrast selected structures of languages treated from a typological, genetic, or a real perspective. No special prior knowledge of the subject language is required. Prereqs., LING 5410, 5420, and 5570, or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-6560 (3) Language Acquisition

Theories and research methods in first-language acquisition of phonology, morphology, syntax, semantics, and pragmatics. Prereqs., LING 5410, 5420, and 5430, or instructor consent.

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LING-6940 (1) Master's Degree Candidate

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LING-6950 (1-6) Master's Thesis

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LING-7000 (3) Methods of Typological Research 1

Research practicum that provides experience in discovering generalizations about language from observations over a sample of individual languages. Students practice the steps in such research from formulation of research questions to preliminary sketch of results under close faculty supervision. Prereqs., LING 5410, 5420, and 5570; or equivalent.

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LING-7030 (3) Phonetic Theory and Analysis

Provides students with the practical skills and the conceptual framework to do independent research in phonetics (or in other areas relying on phonetic data). Introduces current and traditional issues in phonetic research (both experimental and theoretical) and gives training in analytical methods. Prereqs., LING 5030 and 5410 or equivalent.

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LING-7100 (3) Field Methods 1

Introduces the process of discovering structure of a language from data obtained directly from its speakers. Emphasizes effectiveness in the field context, rapid recognition of structural features, and preliminary formulation using computational tools. Prereqs., LING 5410 and 5420, or equivalent.

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LING-7320 (3) Narrative and Identity

Examines the ways in which identities are constructed, contested, and negotiated through narrative practice.

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LING-7350 (3) Language and Gender in Cultural Perspective

Examines organizations of language and gender in a variety of societies and cultures from the perspectives of sociolinguistics, linguistic anthropology, and socially-oriented discourse analysis.

College of Arts & Sciences | Linguistics

LING-7360 (3) Language and Sexuality

Explores the role of language in the social construction and articulation of sexuality.

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LING-7410 (3) Phonological Theory

Phonetic and morphophonological representations: distinctive features, segments, prosodic structures, morphological structures. Phonological processes and their interaction. Naturalness conditions. Prereq., LING 5410 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Phd in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as PSYC 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-7420 (3) Syntactic Theory

Covers various topics in syntactic theory. May be repeated up to 9 total credit hours with instructor consent. Prereq., LING 5420 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Phd in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-7430 (3) Semantic Theory

Current developments in the theory of linguistic semantics. Topics include truth-conditional theories, generative linguistic theories, semantic theories of communicative competence, and integration of these theories in development of a combined theory of semantics and pragmatics. Prereq., LING 5430 or instructor consent.

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LING-7570 (3) Advanced Diachronic Linguistics

Presents theories of language change. Discusses mechanisms of language change, its trajectories over linguistic categories and items, and its relation to theories of grammar and of language variation. Prereqs., LING 5410, 5420, and 5570, or equivalent. .

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LING-7762 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and PSYC 7765.

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LING-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as PSYC 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

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LING-7800 (3) Open Topics in Linguistics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. Contact the department office for information. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

LING-7900 (1-3) Independent Study

May be repeated up to 7 total credit hours.

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LING-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PHIL-1010 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. PHIL 1010 and 1020 may be taken in either order. Same as CLAS 1030. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

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PHIL-1020 (3) Introduction to Western Philosophy: Modern

Introduces several philosophical texts and doctrines of 17th and 18th century Europe. Gives special attention to the connection between philosophical ideas and the wider historical milieu--social, political, and literary. PHIL 1010 and 1020 may be taken in either order. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

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PHIL-1100 (3) Ethics

Introductory study of major philosophies on the nature of the good for humanity, principles of evaluation, and moral choice as they apply to contemporary moral problems. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

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PHIL-1200 (3) Philosophy and Society

Introduces philosophical thought through critical analysis of our own society, its institutions, and principles. Approved for GT-AH3. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or ideals and values.

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PHIL-1400 (3) Philosophy and the Sciences

Considers philosophical topics and concepts related to the natural sciences, such as science and pseudo-science; scientific method; the nature of explanation, theory, confirmation, and falsification; the effect of science on basic concepts like mind, freedom, time, and causality; ethics of experimentation; and the relation of science to society. Approved for GT-AH3. Approved for arts and sciences core curriculum: natural science.

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PHIL-1440 (3) Introductory Logic

Introductory study of definition, informal fallacies, and the principles and standards of correct reasoning. Provides practice in analyzing, evaluating, and constructing frequently encountered types of arguments. Does not fulfill major requirement in logic.

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PHIL-1500 (3) Reading, Writing and Reasoning

Teaches students how to write argumentative papers. Each seminar will focus narrowly on some controversial topic. For example, one seminar might focus on the existence of God, whereas another might question whether we have free will. In all cases, a significant portion of the course will be devoted to learning how to write cogent argumentative papers about controversial topics. Approved for arts and sciences core curriculum: written communication.

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PHIL-1600 (3) Philosophy and Religion

Philosophical introduction to some of the central concepts and beliefs of religious traditions, focusing particularly on the question of the existence of God and on the relation between religious beliefs and moral beliefs. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

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PHIL-1700 (3) Philosophy and the Arts

Considers philosophic questions involved in the analysis and assessment of artistic experiences and of the objects with which the arts, including the literary arts, are concerned.

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PHIL-1750 (3) Philosophy through Literature

Introduces philosophy through literature. Selected novels, plays, and short stories that exemplify traditional problems in philosophy are read and discussed.

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PHIL-1800 (3) Open Topics/Philosophy

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PHIL-2140 (3) Environmental Justice

Traditional and contemporary theories of justice are employed in order to critically analyze social and political issues that have important environmental dimensions. Assesses the relationship of justice and equity to the presuppositions of national and global environmental issues and policies.

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PHIL-2200 (3) Major Social Theories

Introductory study of major philosophies of the past in relation to political, economic, and social issues. Approved for arts and sciences core curriculum: ideals and values.

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PHIL-2220 (3) Philosophy and Law

Considers philosophical issues related to law in general and the U.S. system in particular. Topics to be covered may address such questions as the following: What is the nature of law? What kinds of acts should the law prohibit (e.g., abortion, drug use, pornography, cloning)? Is there a moral obligation to obey the law? Can civil disobedience be justified? Is there a justification for punishing people for breaking the law? Is capital punishment, in particular, morally justified? Approved for arts and sciences core curriculum: United States context.

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PHIL-2270 (3) Philosophy and Race

Explores the historical relationship between western philosophy and race and investigates the ways in which philosophy can be used to address contemporary racial issues. Approved for arts and sciences core curriculum: human diversity.

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PHIL-2290 (3) Philosophy and Women

Explores different approaches to the study of women. Same as WMST 2290. Approved for arts and sciences core curriculum: cultural and gender diversity.

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PHIL-2390 (3) Philosophy and Psychology

Interdisciplinary course on issues where philosophy and psychology meet; for example, topics such as selfhood, motivation, psychotherapy, freedom, and human behavior are examined. Selected readings in philosophy and psychology are required.

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PHIL-2440 (3) Symbolic Logic

First course in mathematical logic. Topics include sentential logic, the logic of quantification, and some of the basic concepts and results of metalogic (interpretations, validity, and soundness).

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PHIL-2610 (3) From Paganism to Christianity

Offers a cultural history of Greek and Roman religion. Students read ancient text in translation and use evidence from archaeology to reconstruct the shift from paganism to Christianity in antiquity. Same as CLAS 2610. Approved for arts and sciences core curriculum; ideals and values.

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PHIL-2750 (3) Philosophy and Science Fiction

Explores philosophical issues in science fiction literature and film. Topics may include time travel, artificial intelligence, free will, personal identity, and how scientific advances will change human life and society. Students may read science fiction stories and philosophical articles, and watch several movies.

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PHIL-2800 (3) Open Topics/Philosophy

May be repeated up to 6 total credit hours.

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PHIL-2840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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PHIL-3000 (3) History of Ancient Philosophy

A survey of selected figures in ancient Greek and Roman philosophy and in medieval philosophy. Philosophers studied may include the pre-Socratics, Plato, Aristotle, the Hellenistic philosophers, and such figures as Aquinas and Occam. Explores the larger cultural context that influenced these philosophers and were, in turn, influenced by them. Prereqs., 6 hours of philosophy coursework. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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PHIL-3010 (3) History of Modern Philosophy

Introduces modern philosophy, focusing on the period from Descartes through Kant. In addition to careful analysis of philosophical arguments, attention is paid to the ways in which philosophers responded to and participated in major developments in the 17th and 18th century, such as the scientific revolution. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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PHIL-3100 (3) Ethical Theory

Studies major issues and theories in ethics. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-3110 (3) Feminist Practical Ethics

Explores a variety of personal and public policy issues in the light of the basic feminist commitment to opposing women's subordination. Provides a sense of how a principled commitment to feminism may influence or be influenced by prevailing interpretation of contemporary ideals and values, and gives an opportunity for developing skills of critical analysis. Prereq., WMST 2000 or 2290. Restricted to juniors/seniors. Same as WMST 3100. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-3140 (3) Environmental Ethics

Examines major traditions in moral philosophy to see what light they shed on value issues in environmental policy and the value presuppositions of the economic, ecological, and juridical approaches to the environment. Prereq., PHIL 1100, 1200, 2200, 3100, or 3200. Same as ENVS 3140. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3160 (3) Bioethics

Analysis of ethical problems involved in such issues as abortion, euthanasia, organ transplants, eugenics, treatment of the patient as a person, and the institutional nature of the health care delivery system. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3180 (3) Critical Thinking: Contemporary Topics

Looks at a selected topic such as nuclear disarmament, racial and sexual discrimination, animal rights, or abortion and euthanasia by examining issues through the lens of critical philosophical analysis. Reviews the reasoning behind espoused positions and the logical connections and argument forms they contain. Prereq., 6 hours of philosophy course work. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3190 (3-4) War and Morality

Focuses on moral issues raised by war as a human institution. What are the justifications, limits, and alternatives? Does the advent of nuclear weapons change the nature of war? Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3200 (3) Social and Political Philosophy

Systematic discussion and analysis of such philosophic ideas as community, freedom, political power, and violence. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3260 (3) Philosophy and the International Order

Considers philosophical topics concerning the international economic, political, and legal systems. Topics that may be considered include the nature of international law, war and peace, humanitarian intervention, international justice, world hunger, and human rights. Prereq., 6 hours PHIL course work. Restricted to sophomores/juniors/seniors. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Philosophy

PHIL-3310 (3) Cognitive Science

An interdisciplinary introduction to cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Prereq., two of the following four courses: PSYC 2145, LING 2000, CSCI 1300, PHIL 2440. Same as PSYC/LING 3005 and CSCI 3702.

College of Arts & Sciences | Philosophy

PHIL-3410 (3) History of Science: Ancients to Newton

Surveys the history of science up to Newton, including the emergence of scientific modes of thinking from religious and philosophical roots in the Near East and Greece to the development of these modes in the Middle Ages and Renaissance. Culminates with Isaac Newton and the 17th century scientific revolution. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: historical context or natural science. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3430 (3) History of Science: Newton to Einstein

The history of physical and biological science, from the epoch-making achievements of Charles Darwin in biology to the dawn of the 20th century revolutions in physics, chemistry, and genetics. Deals with the success of the mechanical philosophy of nature and its problems. Prereq., 6 hours of philosophy course work. Restricted to sophomores/juniors/seniors. Approved for arts and sciences core curriculum: historical context or natural science.

College of Arts & Sciences | Philosophy

PHIL-3480 (3) Critical Thinking/Writing in Philosophy

Focuses upon the fundamental skills, methods, concepts, and distinctions that are essential for the study of philosophy. The basic skills covered include the writing of philosophy papers, the reading of articles, and the extraction and evaluation of arguments. Prereq., 6 hours of philosophy course work. Prereq. or coreq., PHIL 2440. Approved for art and sciences core curriculum: written communication. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Philosophy (PHIL), BA or ADL majors only.

College of Arts & Sciences | Philosophy

PHIL-3600 (3) Philosophy of Religion

Philosophical discussion of fundamental issues in religion, such as existence of God, religious experience, faith and reason, evil, immortality, and religious language. Prereq., 6 hours of philosophy course work. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-3700 (3) Aesthetic Theory

Introduces major theories of aesthetics and contemporary discussions of problems, e.g., the nature of art and the problem of evaluations in art. Prereq., 6 hours of philosophy course work. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3800 (3) Open Topics in Philosophy

Variety of new courses at the 3000 level. See current departmental announcements for specific content. Maybe repeated up to 6 total credit hours. Prereq., 6 hours of philosophy course work. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Philosophy

PHIL-3840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prereq., 6 hours of philosophy course work. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-3930 (1-3) Internship in Social Policy

Under the guidance of an official in a governmental or non-governmental organization, students are assigned to projects selected for their academic suitability as well as for value to the sponsoring organization. Prior approval of department required. Prereq., 9 hours in moral or political philosophy course work. Recommended prereqs., PHIL 1200, 2200, and 3200.

College of Arts & Sciences | Philosophy

PHIL-4010 (3) Single Philosopher

Intensively studies the work of one historical figure in philosophy, with the aim of reaching a broad understanding of the philosopher's whole body of thought. Philosophers covered include, from year to year, Plato, Aristotle, Augustine, Aquinas, Descartes, Spinoza, Locke, Leibniz, Hume, and Kant. Includes at least one course per year on an ancient author and one course per year on a modern author. May be repeated up to 12 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours philosophy course work. Same as PHIL 5010. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4020 (3) Topics in the History of Philosophy

Examines a specific philosophical problem over an extended historical period. May be repeated up to 9 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of philosophy course work, including PHIL 3000 and 3010. Same as PHIL 5020. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4030 (3) Medieval Philosophy

Introduces philosophy from the late Roman era to the 14th century. Philosophers studied may include Augustine, Boethius, Aquinas, and Ockham. Topics range over religion, ethics, mind, and metaphysics. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of philosophy course work. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4040 (3) Studies in 20th Century Philosophy

Studies two or three major philosophies prominent during the last century. Prereq., 12 hours of philosophy course work. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4070 (3) Existentialist Philosophy

Examines central figures and texts in the existentialtradition, from Kierkegaard and Nietzsche to Heidegger and Sartre. Prereq., 12 hours of philosophy course work. Restricted to juniors/seniors.

College of Arts & Sciences | Philosophy

PHIL-4110 (3) Contemporary Moral Theory

Provides an in-depth look at some recent work in moral theory. Topics covered, varying from year to year, include: consequentialism and its critics; virtue theory; moral psychology; impartiality and the personal point of view. Prereqs., 12 hours philosophy course work, including PHIL 3100; and junior standing. Same as PHIL 5110.

College of Arts & Sciences | Philosophy

PHIL-4120 (3) Philosophy and Animals

Examines the moral status of nonhuman animals, and its implications for the common use of animals as food and experimental subjects for humans. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of PHIL coursework completed. Recommended prereq., PHIL 3100. PHIL 4120 and 5120 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4200 (3) Contemporary Political Philosophy

Provides a survey of recent approaches to political philosophy: liberalism (Rawls, Dworkin); libertarianism (Nozick); communitarianism (Sandel, Macintyre); and feminism (Jaggar). Topics and readings vary with the instructor. May be repeated up to 6 total credit hours. Prereqs., PHIL 2200, 3200, and 12 hours of philosophy course work. Restricted to juniors and seniors. Same as PHIL 5200. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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PHIL-4210 (3) Ancient Political Thought

Prereq., CLAS/HIST 1051, CLAS/HIST 1061, HIST 1010, PSCI 2004, or PHIL 3000. Restricted to juniors/seniors. Same as CLAS 4041 and HIST 4041.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-4250 (3) Marxism

Historical and systematic study of principal themes of Marxist thought, from its Hegelian origins to its contemporary varieties, emphasizing the works of Marx and Engels. Prereq., 12 hours of GRMN or PHIL course work or instructor consent. Restricted to juniors/seniors. Same as GRMN 4251. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-4260 (3) Philosophy of Law

Considers philosophical topics concerning law and the U.S. legal system. Topics that may be considered include the nature of law, relations between law and morality, justifications of punishment, the moral duty to obey the law, and law and liberty. Prereq., junior or senior standing and 12 hours in philosophy. Same as PHIL 5260. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-4300 (3) Philosophy of Mind

Discusses problems in the philosophy of mind, including the mind-body problem, and such concepts as consciousness, mental representation, and intentionality. Restricted to students with 57-180 credits (Junior or Senior). Restricted to students with 57-180 credits (Junior or Senior). Prereqs., PHIL 2440, 3010, 3480, and 4340. Same as PHIL 5300. Prerequisites: Restricted to

students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4340 (3) Epistemology

Studies some of the main topics of theory of knowledge, such as evidence, justification, prediction, explanation, skepticism, and concept acquisition. Prereq., 12 credit hours of philosophy, including PHIL 2440 and 3010. Recommended prereq., PHIL 3480. PHIL 4340 and 5340 are the same course. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Philosophy (PHIL) majors only.

College of Arts & Sciences | Philosophy

PHIL-4360 (3) Metaphysics

Traditional and contemporary theories of the basic categories of reality and the human relationship to it, including universals, substance, identity, change, mind and body, free will, and modality. Restricted to students with 57-180 credits (Junior or Senior). Prereqs., PHIL 2440, 3010, 3480 and 4340. Same as PHIL 5360. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4400 (3) Philosophy of Science

Prereqs., 12 hours PHIL course work including PHIL 2440 or equivalent, and junior standing. Same as PHIL 5400. . Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4440 (3) Topics in Logic

Provides for offering courses in a variety of topics in logic, including, but not limited to, mathematical logic, philosophical issues in logic, probability theory, decision theory, and inductive logic. Prereq., 12 hours PHIL course work, including PHIL 2440 or equivalent. Restricted to juniors/seniors. May be repeated up to 6 total credit hours. Same as PHIL 5440. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4450 (3) History and Philosophy of Physics

Investigates the role of experiment in physics. Uses case studies in the history and philosophy of physics and in scientific methodology. Prereqs., PHYS 1020 or 1120 or 2020 or instructor consent, 12 hours PHIL course work, and junior standing. Same as PHIL 5450 and PHYS 4450. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4460 (3) Modal Logic

Introduces the most philosophically relevant kind of logic that builds on PHIL 2440. Modal logic is the logic of the concepts of necessity, possibility, and contingency. A variety of systems of sentential modal logic will be covered, along with the standard system of first-order modal logic. Restricted to students with 57-180 credits (Junior or Senior). Recommended prereq., PHIL 2440. Same as PHIL 5460. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4470 (3) Probability and Rational Choice

Examines issues in four related areas: probability theory (e.g. the interpretation of probability, the raven paradox, and the principle of indifference), decision theory (e.g., the Newcomb problem, the toxin puzzle, and Pascal's wager), game theory (e.g., Prisoner's dilemma, tragedy of the commons, and Schelling points), and social choice theory (e.g., Arrow's theorem). Familiarity with symbolic logic is strongly recommended. Prereq., 12 hours of PHIL coursework completed. Recommended prereq., PHIL 2440. PHIL 4470 and 5470 are the same course.

College of Arts & Sciences | Philosophy

PHIL-4490 (3) Philosophy of Language

Examines theories and problems regarding the nature of language and its relation to reality. Concepts discussed include sense, reference, conventions, intentions, and their relation to science and social life. Relevant literature includes readings in Frege, Russell, Quine, Putnam, Kripke, and Chomsky. Prereq., PHIL 2440, 12 credit hours of philosophy, and junior standing. Same as PHIL 5490. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4600 (1) Theology Forum Seminar

Discusses a variety of theological and philosophical topics. Some reading, much discussion, occasional guest speakers. May be repeated up to 3 total credit hours with permission of instructor. Prereq., 12 hours of PHIL course work. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4800 (3) Open Topics in Philosophy

A variety of new courses at the 4000 level. See current departmental announcements for specific content. May be repeated up to 6 total credit hours. Prereqs., 12 credit hours of philosophy and junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-4830 (3) Senior Seminar in Philosophy

Critical in-depth examination of a selected philosophical topic. May be repeated up to 6 total credit hours. Prereq., 15 hours of philosophy. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Philosophy (PHIL) majors only.

College of Arts & Sciences | Philosophy

PHIL-4840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prereq. 12 hours of philosophy course work. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Arts & Sciences | Philosophy

PHIL-4950 (3) Honors Thesis

May be repeated up to 6 total credit hours. Prereq., 12 hours of philosophy course work. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Philosophy

PHIL-5010 (3) Single Philosopher

May be repeated up to 12 total credit hours. Prereq., graduate standing or instructor consent. Same as PHIL 4010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5020 (3) Topics in the History of Philosophy

May be repeated up to 9 total credit hours. Same as PHIL 4020. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5030 (1) Greek Philosophical Texts

Selected readings in classical philosophy, with a focus on achieving fluency in reading philosophical Greek. May be repeated up to 8 total credit hours. May enroll in multiple sections in the same term.

College of Arts & Sciences | Philosophy

PHIL-5040 (1) Latin Philosophical Texts

Selected readings in classical and medieval authors, in the original language. The focus is on achieving fluency in reading philosophical Latin. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-5100 (3) Ethics

Presents representative positions in normative ethics and metaethics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5110 (3) Contemporary Moral Theory

Same as PHIL 4110.

College of Arts & Sciences | Philosophy

PHIL-5120 (3) Philosophy and Animals

Examines the moral status of nonhuman animals, and its implications for the common use of animals as food and experimental subjects for humans. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of PHIL coursework completed. Recommended prereq., PHIL 3100. PHIL 4120 and 5120 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5200 (3) Contemporary Political Philosophy

Same as PHIL 4200. Prerequisites: Restricted to Philosophy graduate students only.

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PHIL-5210 (3) Philosophy and Social Policy

Studies philosophical approaches to social and political issues such as abortion, bioethics, environmental preservation, human rights, and reverse discrimination. Gives attention to strengths and weaknesses of philosophical treatments of these issues. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences | Philosophy

PHIL-5230 (3) Bioethics and Public Policy

Examines public policy implications of contemporary biological, genetic, biomedical, and behavioral science in light of ethics and human values. Considers theoretical and practical grounds for moral assessment of scientific research and possible applications of technology. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-5240 (3) Seminar in Environmental Philosophy

Philosophical examination of several different approaches to environmental problems: economic, juridical, political, and ecological. Discusses specific environmental problems, focusing on their moral dimensions, e.g., wilderness preservation, animal rights, and land use and urban planning. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-5260 (3) Philosophy of Law

Same as PHIL 4260. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5290 (1-3) Topics in Values and Social Policy

Deals with topics in the area of philosophy and public policy and is often interdisciplinary in focus. Topics vary from one semester to another. May be repeated up to 7 total credit hours.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5300 (3) Philosophy of Mind

Same as PHIL 4300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5340 (3) Epistemology

Covers a selection of the following problems: the analysis of knowledge, theories of justification, skepticism, perceptual knowledge, theories of sense experience, other minds, knowledge of the past, the problem of induction, theories of justification, and a priori knowledge. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5360 (3) Metaphysics

Same as PHIL 4360. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5400 (3) Philosophy of Science

Same as PHIL 4400. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences | Philosophy

PHIL-5440 (3) Topics in Logic

Same as PHIL 4440. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences | Philosophy

PHIL-5450 (3) History and Philosophy of Physics

Same as PHIL 4450 and PHYS 5450. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences | Philosophy

PHIL-5460 (3) Modal Logic

Same as PHIL 4460. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5470 (3) Probability and Rational Choice

Examines issues in four related areas: probability theory (e.g. the interpretation of probability, the raven paradox, and the principle of indifference), decision theory (e.g., the Newcomb problem, the toxin puzzle, and Pascal's wager), game theory (e.g., Prisoner's dilemma, tragedy of the commons, and Schelling points), and social choice theory (e.g., Arrow's theorem). Familiarity with symbolic logic is strongly recommended. Prereq., 12 hours of PHIL coursework completed. Recommended prereq., PHIL 2440. PHIL 4470 and 5470 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5490 (3) Philosophy of Language

Same as PHIL 4490. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences | Philosophy

PHIL-5500 (3) Advanced Formal Semantics

Considers topics in the semantics of natural language not normally covered in first courses in philosophy of language. These include: natural deduction and sequent calculi for conditional logic; interpretation as logical inference; Lambek calculus and applicative categorial grammar; applications such as generalized coordination, plurals, higher-order intensional logic, generics, focus, and event-based semantics. Recommended prereq., PHIL 5490.

College of Arts & Sciences | Philosophy

PHIL-5550 (3) Metaphysics and Epistemology Proseminar

Covers seminal classic texts and/or fundamental topics in analytic metaphysics and epistemology. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5600 (3) Philosophy of Religion

Studies topics falling under philosophy of religion, such as proofs for God's existence, religious language, mysticism, psychology of religion, modern theological movements, miracles, and study of individual theologians. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-5700 (3) Aesthetics

Analyzes the principal topics of aesthetics, including such issues as formal structure of aesthetics, the nature of critical judgments, and the status of the work of art. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5800 (3) Open Topics in Philosophy

Variety of new courses at the 5000 level. See current departmental announcements for specific content. Maybe repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5810 (1-3) Special Topics in Philosophy

Instructor meets regularly with three or more students to discuss special topics in philosophy. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-5840 (1-3) Graduate Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Philosophy

PHIL-6000 (3-4) Seminar in the History of Philosophy

Studies advanced topics in the history of philosophy. Content varies by semester, but may extend to any period in the history of philosophy, from the Presocratics into the modern era. May be repeated up to 12 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-6100 (3) Seminar in Ethics

Intensive study of selected topics in ethical theory.

College of Arts & Sciences | Philosophy

PHIL-6200 (3) Seminar in Social and Political Philosophy

Provides an in-depth look at some particular topic in social and political philosophy, such as rights, political freedom, political obligation, or democracy. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-6300 (3) Seminar in Philosophy of Mind

Studies selected topics in philosophy of mind. Prerequisites: Restricted to Philosophy graduate students only.

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PHIL-6310 (3) Issues and Methods in Cognitive Science

Prereqs., graduate standing, or at least one course at the 3000 level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science is presumed. Same as CSCI 6402, EDUC 6504, LING 6200, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-6340 (3) Seminar in Epistemology

Studies some of the main topics of epistemology, such as skepticism, foundations of knowledge, perception, introspection, belief, certainty, and analytic-synthetic distinctions. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-6380 (3) Seminar in Metaphysics

Traditional and contemporary theories of the basic categories used to describe nature and the human relationship to it, including such concepts as substance, identity, space and time, causality, determination, and systematic ontology. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Philosophy](#)

PHIL-6400 (3) Seminar in Philosophy of Science

Topics connected with development of nature of science; structure of scientific theories; testing of hypotheses. Theory of decisions in science and ethics. Basic conceptions and models of abstraction in the history of science. Prerequisites: Restricted to Philosophy graduate students only.

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College of Arts & Sciences | Philosophy

PHIL-6490 (3) Seminar in Philosophy of Language

Studies some of the main topics in the philosophy of language, such as meaning and theories of meaning, translation, speech acts, rules of language, reference, relevance of psycholinguistics, language and thought, and language and ontology. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-6940 (1) Master's Candidate for Degree

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-6950 (1-6) Master's Thesis

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences | Philosophy

PHIL-7415 (2) Cognitive Science Research Practicum.

Independent, interdisciplinary research project in cognitive science for graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students should obtain commitments from two mentors for their project. Prereqs., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereqs., CSCI 7762 or EDUC 6505 or LING 7762 or PSYC 7765. Same as LING 7415, PSYC 7415, CSCI 7412, and EDUC 6506.

College of Arts & Sciences | Philosophy

PHIL-7425 (2) Cognitive Science Research Practicum 2.

Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 6310 or PSYC 7762. Same as CSCI 7422, EDUC 6516, LING 7425, PSYC 7425.

College of Arts & Sciences | Philosophy

PHIL-7810 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students

enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, PSYC 7775 and SLHS 7775. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

PHIL-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Philosophy

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PHYS-1010 (3) Physics of Everyday Life 1

Intended primarily for nonscientists, this course covers physics encountered in everyday life. Topics include balls, scales, balloons, stoves, insulation, light bulbs, clocks, nuclear weapons, basics of flashlights, and microwave ovens. Prereq., high school algebra or equivalent. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. However, this course should not be taken if the student has a MAPS deficiency in math. Approved for arts and sciences core curriculum: natural science or quantitative reasoning and mathematical skills.

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PHYS-1020 (4) Physics of Everyday Life 2

Intended primarily for nonscientists, this course is a continuation of PHYS 1010. Includes electrical power generation and distribution, electrical motors, radio, television, computers, copiers, lasers, fluorescent lights, cameras, and medical imaging. Prereqs., PHYS 1010 and high school algebra. Approved for GT-SC1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills or natural science.

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PHYS-1110 (4) General Physics 1

Three lect., one rec. per week, plus three evening exams in the semester. First semester of three-semester sequence for science and engineering students. Covers kinematics, dynamics, momentum of particles and rigid bodies, work and energy, gravitation, simple harmonic motion, and introduction to thermodynamics. Coreq., APPM 1350 or MATH 1300. Credit not granted for this course and PHYS 1170. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

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PHYS-1120 (4) General Physics 2

Three lect., one rec. per week, plus three evening exams in the semester. Second semester of three-semester introductory sequence for science and engineering students. Covers electricity and magnetism, wave motion, and optics. Normally is taken concurrently with PHYS 1140. Prereq., PHYS 1110 (min grade C-). Coreq., MATH 2300 or APPM 1360. Credit not granted for this course and PHYS 1180. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

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PHYS-1140 (1) Experimental Physics 1

Introduction to experimental physics through laboratory observations of a wide range of phenomena. Course covers experiments on physical measurements, linear and rotational mechanics, harmonic motion, wave motion, sound and heat, electricity and magnetism, optics, and electromagnetic waves with the mathematical analysis of physical errors associated with the experimental process. One lect., one 2-hour lab per week. Prereq., PHYS 1110; prereq. coreq., PHYS 1120. Approved for GT-SC1. Approved for arts and science core curriculum: natural science.

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PHYS-1150 (1) Experimental Physics 2

For students in Physics Plan 3 teaching track only. Students complete another full set of PHYS 1140 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1110 and 1120. Same as PHYS 1140.

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PHYS-1220 (3) Physics for Future Presidents

Intended primarily for nonscientists, this course covers topics relevant to leaders, policy makers, and citizens confronted with science and technology issues. Topics include energy consumption and its impact on the environment; atoms and heat; radioactivity and nuclear reactions; nuclear bombs; light and radio waves for technological applications; climate change; quantum physics. Recommended prereq., high school algebra. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

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PHYS-1230 (3) Light and Color for Nonscientists

Discusses light, color, vision, and perception. Covers reflection, refraction, lenses, and applications to photography and other methods of light sensing. Other topics include lasers and holography. Course is geared toward nonscience majors. Meets MAPS requirements for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and science core curriculum: natural science.

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PHYS-1240 (3) Sound and Music

Explores the physical processes that underlie the diversity of sound and musical phenomena. Topics covered include the physical nature of sound, the perception of sound, the perception of pitch and harmony, musical instruments, synthesizers and samplers, and room acoustics. Nonmathematical; geared toward nonscience majors. Approved for GT-SC2. Meets MAPS requirement for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and sciences core curriculum: natural science.

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PHYS-1300 (3) Experiment in Physics

Examines the roles of experiment in physics, using historical examples. Experiments provide a basis for scientific knowledge, test theories, call for new theories, give hints toward the mathematical form of theories, and provide evidence for the existence of entities involved in theories. Approved for arts and sciences core curriculum: natural science.

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PHYS-2010 (5) General Physics 1

Three demonstration lect., one two-hour lab/rec. week, plus three evening exams in the semester. Covers mechanics, heat, and sound. Elementary but thorough presentation of fundamental facts and principles of physics. Natural science majors with a knowledge of calculus and others taking calculus are urged to consider taking the calculus-based courses PHYS 1110, 1120, 1140, and 2130, rather than PHYS 2010 and PHYS 2020. This course is designed for premed students in the biological sciences. Prereq., ability to use high school algebra and trigonometry. Approved for GT-SC1. Meets MAPS requirements for natural science. Approved for arts and sciences core curriculum: natural science.

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PHYS-2020 (5) General Physics 2

Three demonstration lect., one two-hour lab/rec. per week, plus three evening exams in the semester. Covers electricity and magnetism, light, and modern physics. Natural science majors with a knowledge of calculus and others taking calculus are urged to take the calculus-based courses PHYS 1110, 1120, 1140, and 2130, rather than PHYS 2010 and PHYS 2020. This course is designed for premed students and students in the biological sciences. Prereq., PHYS 2010. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

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PHYS-2130 (3) General Physics 3

Third semester of introductory sequence for science and engineering students except physics majors and those studying computer applications in physics (for these, see PHYS 2170). Covers special relativity, quantum theory, atomic physics, solid state, and nuclear physics. Physics majors should take PHYS 2170 instead of PHYS 2130. Prereqs., PHYS 1120, 1140, or ECEN 2250, 3400. Coreq., MATH 2400. Normally taken with PHYS 2150.

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PHYS-2150 (1) Experimental Physics

One lect., one 2-hour lab per week. Includes many experiments of modern physics, including atomic physics, solid state physics, electron diffraction, radioactivity, and quantum effects. Normally taken concurrently with PHYS 2130 or PHYS 2170 but students may take PHYS 2150 after taking PHYS 2130 or 2170. Prereqs., PHYS 1120 and 1140.

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PHYS-2160 (1) Experimental Physics

For students in Physics Plan 3 teaching track only. Students do another full set of PHYS 2150 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1120 and 1140. Same as PHYS 2150.

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PHYS-2170 (3) Foundations of Modern Physics

For physics majors in plans 1 and 2 and those studying computer applications in physics. Completes the three-semester sequence of general physics. Emphasizes developing skills for physics majors. Includes relativity, quantum mechanics, atomic structure. Normally taken with the laboratory PHYS 2150. Prereq., PHYS 1120. Coreq., MATH 2400 or APPM 2350.

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PHYS-2210 (3) Classical Mechanics and Mathematical Methods 1

Theoretical Newtonian mechanics, including position and velocity dependent forces, oscillation, stability, non-inertial frames and gravitation from extended bodies. Ordinary differential equations, vector algebra, curvilinear coordinates, complex numbers, and Fourier series will be introduced in the context of the mechanics. Prereqs., PHYS 2130 or 2710, MATH 2400 or APPM 2350. Coreq., APPM 2360. Credit not granted for this course and PHYS 2140. Prerequisites: Restricted to Physics, Engineering Physics or Astronomy majors only.

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PHYS-2810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 7 total credit hours.

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PHYS-2840 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. May be repeated up to 7 total credit hours.

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PHYS-3000 (3) Science and Public Policy

For nonscience majors. Reading, discussions, debates, and lectures are used to study how science affects society economically, intellectually, and in terms of health and national security. Another focus is how government fosters and funds scientific activities. Recommended prereq., completion of core science requirement.

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PHYS-3050 (3) Writing in Physics: Problem-Solving and Rhetoric

Teaches strategies used in scientific writing with an emphasis on argument, reviews and reinforces essential writing skills, provides experience in writing both academic and professional communications in a style appropriate to the literature of physics. Prereqs., PHYS 2130 or 2170 and lower-division core writing requirement. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication.

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PHYS-3070 (3) Energy and the Environment

Contemporary issues in energy consumption and its environmental impact, including fossil fuel use and depletion; nuclear energy and waste disposal; solar, wind, hydroelectric, and other renewable sources; home heating; energy storage; fuel cells; and alternative transportation vehicles. Included are some basic physical concepts and principles that often constrain choices. No background in physics is required. Approved for arts and sciences core curriculum: natural science. Same as ENVS 3070.

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PHYS-3210 (3) Classical Mechanics and Mathematical Methods 2

Lagrangian and Hamiltonian treatment of theoretical mechanics, including coupled oscillations, waves in continuous media, central force motion, rigid body motion and fluid dynamics. The calculus of variations, linear algebra, tensor algebra, vector calculus, and partial differential equations will be introduced in the context of the mechanics. Prereqs., PHYS 2210, APPM 2360, or equivalent.

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PHYS-3220 (3) Quantum Mechanics and Atomic Physics 1

Introduces quantum mechanics with wave, operator, and matrix computational techniques. Investigates solutions for harmonic oscillator, potential well, and systems with angular momentum. Develops a quantitative description of one-electron atoms in lowest order. Prereqs., PHYS 2130 or 2170, 2210, and 3210. Prerequisites: Requires pre-requisite courses of PHYS 2210 and 3210, and PHYS 2130 or 2170.

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PHYS-3221 (1) Tutorial Practicum for Quantum Mechanics 1

Uses interactive group work to aid student learning in co-requisite course PHYS 3220. In this tutorial, students will work in small groups to practice how to solve challenging problems and their underlying conceptual basis, as well as using hands-on activities, demonstrations, and other techniques to help learn content. Coreq., PHYS 3220.

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PHYS-3310 (3) Principles of Electricity and Magnetism 1

Covers mathematical theory of electricity and magnetism, including electrostatics, magnetostatics, and polarized media, and provides an introduction to electromagnetic fields, waves, and special relativity. Prerequisites: Requires pre-requisite courses of PHYS 2210 and PHYS 2130 or 2170.

[College of Arts & Sciences](#) | [Physics](#)

PHYS-3311 (1) Tutorial Practicum for Electricity & Magnetism 1

Uses interactive group work to aid student learning in co-requisite course PHYS 3310. In this tutorial, students will work in small groups to practice how to solve challenging problems and their underlying conceptual basis, as well as using hands-on activities, demonstrations, and other techniques to help learn content. Coreq., PHYS 3310.

[College of Arts & Sciences](#) | [Physics](#)

PHYS-3320 (3) Principles of Electricity and Magnetism 2

Continuation of PHYS 3310. Electromagnetic induction; magnetic energy; microscopic theory of magnetic properties; Ac circuits; Maxwell's Equations; planewaves; waveguides and transmission

lines; radiation from electric and magnetic dipoles and from an accelerated charge. Prereq., PHYS 3310.

College of Arts & Sciences | Physics

PHYS-3330 (2) Electronics for the Physical Sciences

One lect. and one three-hour lab per week. Introduces laboratory electronics for physical science students. Includes basic electronic instruments, dc bridge circuits, operational amplifiers, bipolar transistors, field-effect transistors, photodiodes, noise in electronic circuits, digital logic, and microcontrollers. Students gain hands-on experience in designing, building, and debugging circuits. Concludes with a three-week project in which students design and build an experiment of their choice and present a seminar on the results. Prereq., PHYS 2150 and 2130 or 2170.

College of Arts & Sciences | Physics

PHYS-3340 (3) Introductory Research in Optical Physics

Two lect., one three-hour lab plus variable unsupervised labs each week. Students design and build their own experiments using a modular type of optical research kit. Experiments cover basic research methods in instrument design, laser physics, Fourier optics, holography, spectroscopy, and interferometry. Students learn how to plan major projects and evaluate critically the significance of results. Course concludes with a four-week major project. Prereq., PHYS 3330.

College of Arts & Sciences | Physics

PHYS-4130 (3) Biological Electron Microscopy: Principles and Recent Advances

Prereq., EBIO 1220, or MCDB 1150, or MCDB 4500/5500, or PHYS 1120, or 2020, or instructor consent. Same as PHYS 5130 and MCDB 4130.

College of Arts & Sciences | Physics

PHYS-4150 (3) Plasma Physics

Discusses the fundamentals of plasma physics, including particle motion in electromagnetic fields, wave propagation, collisions, diffusion, and resistivity. Presents examples from space plasmas, astrophysical plasmas, laboratory fusion plasmas, and plasmas in accelerators. Prereqs., PHYS 1110--1120, PHYS 3310, and MATH 2400 or APPM 2350.

College of Arts & Sciences | Physics

PHYS-4230 (3) Thermodynamics and Statistical Mechanics

Statistical mechanics applied to macroscopic physical systems; statistical thermodynamics, classical thermodynamics systems; applications to simple systems. Examines relationship of statistical to thermodynamic points of view. Prereqs., PHYS 3220 and APPM 2360.

College of Arts & Sciences | Physics

PHYS-4340 (3) Introduction to Solid State Physics

Primarily for senior physics majors. Discusses crystal structure, lattice dynamics, band theory, semiconductors, and ferromagnetism. Prereq., PHYS 3220. Same as ECEN 4345.

College of Arts & Sciences | Physics

PHYS-4410 (3) Quantum Mechanics and Atomic Physics 2

Extends quantum mechanics to include perturbation theory and its applications to atomic fine structure, interactions with external forces, the periodic table, and dynamical processes including electromagnetic transition rates. Prereqs., PHYS 3220, 3320.

College of Arts & Sciences | Physics

PHYS-4420 (3) Nuclear and Particle Physics

Introduces structure of the atomic nucleus, spectroscopy of subnuclear particles, scattering, reactions, radioactive decay, fundamental interactions of quarks and leptons. Prereq., PHYS 4410.

College of Arts & Sciences | Physics

PHYS-4430 (3) Introduction to Research in Modern Physics

One lect., one lab per week to be taken with PHYS 4410. Experiments introduce students to realities of experimental physics so they gain a better understanding of theory and an appreciation of the vast amount of experimental work done in the physical sciences today. Prereqs., PHYS 3220 and 3320. Coreq., PHYS 4410. Same as PHYS 5430.

College of Arts & Sciences | Physics

PHYS-4450 (3) History and Philosophy of Physics

Investigates the role of experiment in physics; case studies in the history and philosophy of physics and in scientific methodology. Prereq., PHYS 1020 or 1120 or 2020 or instructor consent. Same as PHYS 5450, PHIL 4450.

College of Arts & Sciences | Physics

PHYS-4460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for

those in interested in physics, teaching and education research. Prereq., PHYS 3210 and 3310 or instructor consent. Same as PHYS 5560 and EDUC 4460.

College of Arts & Sciences | Physics

PHYS-4510 (3) Optics

Basic electromagnetic theory of light, using Maxwell's equations. Examples in geometrical optics; extensive applications in physical optics including diffraction and polarization. Spectra, including Zeeman effect and fluorescence. Recent advances in experimental techniques: microwaves, lasers, image converters. Prereq., PHYS 3320.

College of Arts & Sciences | Physics

PHYS-4610 (2) Physics Honors

Students are matched with a faculty member and work independently on a research topic. Typically, the honors program lasts three semesters. A senior thesis and an oral presentation of the work are required. See also PHYS 4620 and PHYS 4630. Prereq., 3.00 GPA. Registration by special arrangement with the Department of Physics.

College of Arts & Sciences | Physics

PHYS-4620 (2) Physics Honors

Students are matched with a faculty member and work independently on a research topic. Typically, the honors program lasts three semesters. A senior thesis and an oral presentation of the work are required. See also PHYS 4610 and PHYS 4630. Prereq., 3.00 GPA. Registration by special arrangement with the Department of Physics.

College of Arts & Sciences | Physics

PHYS-4630 (2) Physics Honors

Students are matched with a faculty member and work independently on a research topic. Typically, the honors program lasts three semesters. A senior thesis and an oral presentation of the work are required. See also PHYS 4610 and PHYS 4620. Prereq., 3.00 GPA. Registration by special arrangement with the Department of Physics.

College of Arts & Sciences | Physics

PHYS-4810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also PHYS 4820 and PHYS 4830. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-4840 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. See also PHYS 4850. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-4850 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. See also PHYS 4840. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-4970 (3) Seminar on Physical Methods in Biology

Prereq., PHYS 1120 or 2020, and MCDB 1060 or 1150, or EBIO 1220, or instructor consent. Same as PHYS 5970 and MCDB 4970.

College of Arts & Sciences | Physics

PHYS-5030 (3) Intermediate Mathematical Physics 1

This course and its continuation, PHYS 5040, form a survey of classical mathematical physics. Studies complex variable theory and finite vector spaces, and includes topics in ordinary and partial differential equations, boundary value problems, potential theory, and Fourier analysis. Prereqs., MATH 4001 and 4320. Same as MATH 5030. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5040 (3) Intermediate Mathematical Physics 2

Continuation of PHYS 5030. Includes group theory, special functions, integral transforms, integral equations, and calculus of variations. Prereq., PHYS 5030. Same as MATH 5040.

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PHYS-5130 (3) Biological Electron Microscopy: Principles and Recent Advances

Same as PHYS 4130 and MCDB 5130.

College of Arts & Sciences | Physics

PHYS-5141 (3) Astrophysical and Space Plasmas

Covers magnetohydrodynamics and a few related areas of plasma physics applied to space and astrophysical systems, including planetary magnetospheres and ionospheres, stars, and interstellar gas in galaxies. Prereq., graduate standing in astrophysical and planetary science or physics. Same as ASTR 5140.

College of Arts & Sciences | Physics

PHYS-5150 (3) Introductory Plasma Physics

Includes basic phenomena of ionized gases, static and dynamic shielding, linear waves, instabilities, particles in fields, collisional phenomena, fluid equations, collisionless Boltzman equations, Landau damping, scattering and absorption of radiation in plasmas, elementary nonlinear processes, Wkb wave theory, controlled thermonuclear fusion concepts, astrophysical applications, and experimental plasma physics (laboratory). Prereq., PHYS 3310. Same as ASTR 5150.

College of Arts & Sciences | Physics

PHYS-5160 (3) Fundamentals of Optics and Lasers

Covers the basic physics of lasers. Topics include basics of optical resonators and gaussian beam propagation, stimulated emission, laser threshold conditions, laser linewidth, q-switching and mode locking of lasers, tuning of Cw lasers, and specifics of various common lasers. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5210 (3) Theoretical Mechanics

Variational principles, Lagrange's equations, Hamilton's equations, motion of rigid body, relativistic mechanics, transformation theory, continuum mechanics, small oscillations, Hamilton-Jacobi theory. Coreq., PHYS 5250. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5250 (3) Introduction to Quantum Mechanics 1

Quantum phenomena, Ehrenfest theorem and relation to classical physics, applications to one-dimensional problems, operator techniques, angular momentum and its representations, bound states and hydrogen atom, and Stern-Gerlach experiment and spin and spinor wave function. Prereqs., PHYS 3220 and 4410. Coreq., PHYS 5210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5260 (3) Introduction to Quantum Mechanics 2

Symmetries and conservation laws, identical particle systems, approximation techniques (including time-dependent and time-independent perturbation theories and variational techniques) and their applications, scattering theory, radiative transitions, and helium atom. Prereq., PHYS 5250.

College of Arts & Sciences | Physics

PHYS-5430 (3) Introduction to Research in Modern Physics

Same as PHYS 4430.

College of Arts & Sciences | Physics

PHYS-5450 (3) History and Philosophy of Physics

Same as PHYS 4450 and PHIL 5450. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5460 (3) Teaching and Learning Physics

Same as PHYS 4460 and EDUC 5460. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5606 (3) Optics Laboratory

Consists of 13 optics experiments that introduce the techniques and devices essential to modern optics, including characterization of sources, photodetectors, modulators, use of interferometers, spectrometers, and holograms, and experimentation of fiber optics and Fourier optics. Prereq., undergraduate optics course such as PHYS 4510. Same as ECEN 5606.

College of Arts & Sciences | Physics

PHYS-5770 (3) Gravitational Theory (Theory of General Relativity)

Presents Einstein's relativistic theory of gravitation from geometric viewpoint; gives applications to astrophysical problems (gravitational waves, stellar collapse, etc.). Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5840 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-5970 (3) Seminar: Physical Methods in Biology

Same as PHYS 4970 and MCDB 5970. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6260 (3) Geometry of Quantum Fields and Strings

Focuses on differential geometric techniques in quantum field and string theories. Topics include spinors, Dirac operators, index theorem, anomalies, geometry of superspace, supersymmetric quantum mechanics and field theory, and nonperturbative aspects in field and string theories. Prereq., MATH 6230, PHYS 5250, or instructor consent. Recommended prereqs., MATH 6240 and PHYS 7280. Same as MATH 6260.

College of Arts & Sciences | Physics

PHYS-6610 (3) Earth and Planetary Physics 1

Same as GEOL 6610 and ASTR 6610.

College of Arts & Sciences | Physics

PHYS-6620 (3) Earth and Planetary Physics 2

Same as GEOL 6620 and ASTR 6620. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6630 (3) Earth and Planetary Physics 3

Same as GEOL 6630 and ASTR 6630.

College of Arts & Sciences | Physics

PHYS-6650 (1-3) Seminar in Geophysics

Advanced seminar studies in geophysical subjects for graduate students. Same as ASTR 6650 and GEOL 6650. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6670 (2) Geophysical Inverse Theory

Prereqs., calculus, computer programming (any language). Same as GEOL 6670. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6940 (1) Master's Degree Candidate

College of Arts & Sciences | Physics

PHYS-6950 (1-6) Master's Thesis

Approved problem in theoretical or experimental physics under the direction of staff members. Intended to introduce the student to procedures in research and development work. Work of an original nature expected. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-7160 (3) Intermediate Plasma Physics

Continuation of PHYS 5150. Topics vary yearly but include nonlinear effects such as wave coupling, quasilinear relaxation, particle trapping, nonlinear Landau damping, collisionless shocks, solutions; nonneutral plasmas; kinetic theory of waves in a magnetized plasma; anisotropy; inhomogeneity; radiation---ponderomotive force, parametric instabilities, stimulated scattering; plasma optics; kinetic theory, and fluctuation phenomena. Prereq., PHYS 5150 or instructor consent. Same as ASTR 7160.

College of Arts & Sciences | Physics

PHYS-7230 (3) Statistical Mechanics

Classical and quantum statistical theory, including study of both equilibrium and nonequilibrium systems. Topics covered include kinetic theory, degenerate gases, macrocanonical and grand canonical ensembles, and irreversible processes. Prereq., PHYS 5250 and 5260.

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PHYS-7240 (3) Advanced Statistical Mechanics

Introduces current research topics in statistical mechanics. Topics vary from year to year and may include phase transitions, critical phenomena, nonequilibrium phenomena, dense fluids, dynamical systems, plasma physics, or quantum statistical mechanics. Prereq., PHYS 7230.

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Search by College, Department & Category

College/School**Department**

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PHYS-7250 (3) Quantum Many Body Theory

Theory of quantum many body systems, including methods based on Green's functions, Feynman diagrams, and coherent state path integral with applications to interacting quantum gases, superconductivity and superfluidity, quantum phase transitions, quantum magnetism, quantum motion in the presence of disorder, and topological states of matter. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Physics](#)

PHYS-7270 (3) Introduction to Quantum Mechanics 3

Radiation theory; relativistic wave equations with simple applications; introduction to field theory and second quantization. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Physics](#)

PHYS-7280 (3) Advanced Quantum Theory

Quantum theory of fields, elementary particles, symmetry laws, and topics of special interest. Prereq., PHYS 7270 or instructor consent.

[College of Arts & Sciences](#) | [Physics](#)

PHYS-7310 (3) Electromagnetic Theory 1

Sophisticated approach to electrostatics, boundary value problems, magnetostatics, applications of Maxwell's equations to electromagnetic wave propagation, wave guides, and resonant cavities and magnetohydrodynamics. See also PHYS 7320. Prereq., PHYS 5030. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Physics](#)

College of Arts & Sciences | Physics

PHYS-7320 (3) Electromagnetic Theory 2

This is a continuation of PHYS 7310. Topics include relativistic particle dynamics; radiation by moving charges; multiple fields; radiation damping and self-fields of a particle; collisions between charged particles and energy loss; radiative processes; and classical field theory. See also PHYS 7310. Prereq., PHYS 7310.

College of Arts & Sciences | Physics

PHYS-7440 (3) Theory of the Solid State

Stresses application to the solid state of physical concepts basic to much of modern physics, single-particle approximation, and the energy-band description of electron states in solids, pseudopotential theory applied to ordered and disordered systems, dynamical behavior of electrons in solids, lattice dynamics, Hartree-Fock and random-phase approximation in solids, many-body aspects of magnetism, and superconductivity. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-7450 (3) Theory of Solid State 2

The second semester of condensed matter physics covers topics in soft condensed matter physics, liquid crystals, semiconductors, Quantum Hall effect, Fractional Quantum Hall effect, superconductivity, and other topics at the discretion of the instructor.

College of Arts & Sciences | Physics

PHYS-7550 (3) Atomic and Molecular Spectra

Covers theory of atomic structure and spectra, including coupling of angular momenta, tensor operators, energy levels, fine and hyperfine structure, transition probabilities, Zeeman and Stark effects. Molecular spectra: electronic, vibrational, and rotational states. Rotation matrices, symmetric top.

College of Arts & Sciences | Physics

PHYS-7730 (3) Theory of Elementary Particles

Systematics of elementary particles, leptons, quarks, gauge bosons, symmetries and symmetry breaking, scattering cross sections, decay rates, electron-positron annihilation, lepton scattering and hadron structure, quantum chromodynamics, electroweak interactions, gauge theories.

College of Arts & Sciences | Physics

PHYS-7810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-7840 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated up to 7 total credit hours. Same as PHYS 7850.

College of Arts & Sciences | Physics

PHYS-7850 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated for a total of 7 credit hours. Same as Phys 7840.

College of Arts & Sciences | Physics

PHYS-7915 (1) Seminar Topics in Physics

Various seminar topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 3 hours per semester. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Physics



Courses

Search by College, Department & Category

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PORT-1010 (5) Beginning Portuguese 1

Offers students a firm command of Portuguese grammar. Uses grammar as point of departure for development of oral skills. Reading and writing stressed to lesser degree. Attendance at language laboratory may be mandatory.

College of Arts & Sciences | Spanish | Portuguese

PORT-1020 (5) Beginning Portuguese 2

Continuation of PORT 1010. Prereq., PORT 1010 (min. grade C-) or placement.

College of Arts & Sciences | Spanish | Portuguese

PORT-2110 (3) Second-Year Portuguese 1

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 1020 (min. grade C-) or placement. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences | Spanish | Portuguese

PORT-2120 (3) Second-Year Portuguese 2

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 2110 (min. grade C-) or placement.

College of Arts & Sciences Spanish Portuguese

PORT-2150 (5) Intensive Second-Year Portuguese.

Intensive review of grammar and other subjects normally covered in Port 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., Port 1020 (min. grade of C-), or placement and departmental approval. Credit not granted for this course and Port 2110 and 2120. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Portuguese

PORT-2350 (3) Portuguese for Spanish Speakers

Intensive introduction to the Portuguese language for those able to speak Spanish. Prereq., five semesters of college Spanish or equivalent, SPAN 3000, placement, or departmental approval.

College of Arts & Sciences Spanish Portuguese

PORT-3003 (3) Advanced Portuguese Language Skills

Builds vocabulary and competence in more sophisticated written Portuguese. Involves composition, reading, grammar and class discussion. Themes are drawn primarily from current issues in Brazil. Mandatory for the Portuguese-track majors. Prereqs., PORT 2120 or 2150 or 2350.

College of Arts & Sciences Spanish Portuguese

PORT-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as SPAN 3220.

College of Arts & Sciences Spanish Portuguese

PORT-3230 (3) Lusophone Cultures: Brazil, Portugal, and Lusophone Africa

Examines literary, artistic and intellectual currents in Brazil, Portugal and Lusophone Africa from the 15th century period of Portuguese expansion to the post-colonial present. Taught in Portuguese. Prereqs., PORT 2110, 2120 and 2350 (min. grade C-) or departmental approval.

College of Arts & Sciences Spanish Portuguese

PORT-4110 (3) Survey of Brazilian Literature

Examines major works of Brazilian literature. Prereqs., PORT 2120, 2350 and 3230 (min. grade C-) or equivalent. Same as PORT 5110.

College of Arts & Sciences Spanish Portuguese

PORT-4150 (3) Survey of Portuguese Literature

Examines major works of Portuguese literature. Prereqs., PORT 2120, 2350, and 3230 (min. grade C-) or equivalent. Same as PORT 5150.

College of Arts & Sciences Spanish Portuguese

PORT-4230 (3) Special Topics in Luso-Brazilian and/or African Literature

Designed to examine intensively particular topics or issues concerning the literatures of Portugal, Brazil, and/or the African countries of Portuguese colonization. Taught in Spanish. May be repeated up to 6 total credit hours. Prereqs., PORT 3230, SPAN 3100, 3120, and an additional course above SPAN 3000. Same as SPAN 4230.

College of Arts & Sciences Spanish Portuguese

PORT-4840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., departmental approval.

College of Arts & Sciences Spanish Portuguese

PORT-5110 (3) Survey of Brazilian Literature

Same as PORT 4110.

College of Arts & Sciences Spanish Portuguese

PORT-5150 (3) Survey of Portuguese Literature

Same as PORT 4150.

College of Arts & Sciences Spanish Portuguese

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PORT-1010 (5) Beginning Portuguese 1

Offers students a firm command of Portuguese grammar. Uses grammar as point of departure for development of oral skills. Reading and writing stressed to lesser degree. Attendance at language laboratory may be mandatory.

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SPAN-1010 (5) Beginning Spanish 1

Offers students a firm command of Spanish grammar. Grammar is used as a point of departure for development of oral skills. Reading and writing are stressed to a lesser degree. Attendance at the language laboratory may be mandatory. Credit not granted for this course and Span 1150.

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PORT-1020 (5) Beginning Portuguese 2

Continuation of PORT 1010. Prereq., PORT 1010 (min. grade C-) or placement.

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SPAN-1020 (5) Beginning Spanish 2

Continuation of Span 1010. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1010 (mingrade of C-), or placement. Credit not granted for this course and SPAN 1150.

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SPAN-1150 (5) Intensive First Year Spanish

An intensive beginning course covering the same material as Span 1010 and 1020. Attendance at the language laboratory may be mandatory. Similar to Span 1010 and 1020.

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PORT-2110 (3) Second-Year Portuguese 1

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 1020 (min. grade C-) or placement. Approved for GT-AH4. Meets MAPS requirement for foreign language.

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SPAN-2110 (3) Second-Year Spanish 1

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade C-), or placement. Credit not granted for this course and SPAN 2150. Approved for GT-AH4. Meets MAPS requirement for foreign language.

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PORT-2120 (3) Second-Year Portuguese 2

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 2110 (min. grade C-) or placement.

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SPAN-2120 (3) Second-Year Spanish 2

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 2110 (min grade C-) or better, or placement. Credit not granted for this course and SPAN 2150.

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PORT-2150 (5) Intensive Second-Year Portuguese.

Intensive review of grammar and other subjects normally covered in Port 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., Port 1020 (min. grade of C-), or placement and departmental approval. Credit not granted for this course and Port 2110 and 2120. Meets MAPS requirement for foreign language.

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SPAN-2150 (5) Intensive Second-Year Spanish

Intensive review of grammar and other subjects covered in SPAN 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade of C-), or placement and departmental approval. Credit not granted for this course and SPAN 2110 or 2120. Approved for GT-AH4. Meets MAPS requirement for foreign language.

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PORT-2350 (3) Portuguese for Spanish Speakers

Intensive introduction to the Portuguese language for those able to speak Spanish. Prereq., five semesters of college Spanish or equivalent, SPAN 3000, placement, or departmental approval.

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SPAN-2450 (3) Catalan for Spanish Speakers

Offers an intensive introduction to the Catalan language for those able to speak Spanish. By the end of the course students should be able to communicate well in all language-skills areas: listening comprehension, speaking, reading and writing. Students will also have gained a better understanding and appreciation of the Catalan singularity. Prereq., five semesters of college Spanish or equivalent, or SPAN 3000, or placement, or department approval.

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SPAN-3000 (5) Advanced Spanish Language Skills

Transitional course that introduces students to the Spanish major and improves their writing skills. Involves composition, reading, and to a lesser extent, conversation. Prereq., Span 2120 or 2150 (min grade C-), the equivalent, or placement.

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SPAN-3001 (3) Spanish Conversation

Emphasizes vocabulary acquisition and speaking fluency. Through structured and carefully monitored individual, group, and class work, students achieve enduring language growth and meaningful acculturation that otherwise could only be achieved through an extended stay in an Hispanic country. This course is intended for those who are learning Spanish as a second-language. Native speakers of Spanish who have pursued formal education in a Spanish speaking country will not be admitted to the course. Heritage speakers of Spanish (native speakers who have pursued formal education in a non-Spanish speaking setting) as well as students from bi-lingual K-12 programs must meet with the coordinator to determine appropriate class level. Prereqs., SPAN 2120 or 2150 (mingrade C-), the equivalent, or placement. Credit not granted for this course and SPAN 3002. Does not count toward the Spanish major.

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SPAN-3002 (3) Advanced Spanish Conversation

Designed for Spanish majors, this course focuses on refining fluency in both informal and formal discourse through group discussions, class work, and individual and group presentations with a focus on preparing students for communication in professional settings. To that end, the materials used in the course will emphasize themes and problems relevant to the contemporary Hispanic world. Prereq., SPAN 3000 (min grade C-) or equivalent. Credit not granted for this course and SPAN 3001.

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PORT-3003 (3) Advanced Portuguese Language Skills

Builds vocabulary and competence in more sophisticated written Portuguese. Involves composition, reading, grammar and class discussion. Themes are drawn primarily from current issues in Brazil. Mandatory for the Portuguese-track majors. Prereqs., PORT 2120 or 2150 or 2350.

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SPAN-3010 (3) Advanced Rhetoric and Composition

Designed to refine expository and argumentative writing in Spanish, this course will center around four main areas of study: culture, linguistics, sociopolitical and economic reality, and literature and criticism. A multi-draft process-based approach will guide the writing and revision of essays. Additionally, there will be a focus on grammar and lexical issues most challenging for students at the third-year level. Prereq., SPAN 3000 (min. grade C-). Similar to SPAN 4010. Approved for arts and sciences core curriculum: written communication.

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SPAN-3030 (3) Professional Spanish for Business 1

Includes the study of business vocabulary, business concepts, geographic context, and cultural context. Prereq., SPAN 3000.

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SPAN-3040 (3) Professional Spanish for Business 2

Continuation of SPAN 3030 with more emphasis on interpreting and elementary translation. Some attention is given to the writing of resumes and application letters, as well as to the entire job-search process. Prereqs., SPAN 3000, 3030. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

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SPAN-3050 (3) Spanish Phonology and Phonetics

Designed to teach some of the methods, techniques, and tools of descriptive linguistics as they apply to articulatory phonetics. Students analyze important contrasts between sounds of Spanish and English by means of phonetic transcription. Prereq., SPAN 3000.

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SPAN-3100 (3) Literary Analysis

Students read short stories and other brief narrative texts, critical and creative essays, short plays, and poems to facilitate the acquisition of critical skills in identification of basic ideological and formalistic issues within texts being studied. Prereq., SPAN 3000 or equivalent.

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SPAN-3120 (3) Advanced Spanish Grammar

Analysis of texts from morphological and syntactic perspectives. Structural and semantic characteristics of major features of Spanish are studied at the sentence level. Use of these grammatical features is then studied in selected literary texts. Prereq., SPAN 3000 or equivalent.

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SPAN-3150 (3) Linguistic Analysis of Spanish

Introduces students to fundamental areas of linguistic analysis with special attention paid to Spanish (and Portuguese). The structural systems of language will be introduced (principles of sound patterns, word formation, meaning, and sentence structure). Different types of language variation will be discussed (historical, social, regional). Prereq., SPAN 3000 or equivalent.

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Courses

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SPAN-3200 (3) Spanish Culture

Examines historical bases of modern Spain's cultural and political currents. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3210 (3) The Cultural Heritage of Latin America

Examines literary, artistic, and philosophical currents in Latin America beginning with pre-Columbian indigenous cultures and continuing to the present. Prereq., SPAN 3000. Credit not granted for this course and SPAN 3220.

College of Arts & Sciences Spanish Spanish

PORT-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as SPAN 3220.

College of Arts & Sciences Spanish Portuguese

SPAN-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as PORT 3220.

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| College of Arts & Sciences | Spanish | Spanish |
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PORT-3230 (3) Lusophone Cultures: Brazil, Portugal, and Lusophone Africa

Examines literary, artistic and intellectual currents in Brazil, Portugal and Lusophone Africa from the 15th century period of Portuguese expansion to the post-colonial present. Taught in Portuguese. Prereqs., PORT 2110, 2120 and 2350 (min. grade C-) or departmental approval.

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| College of Arts & Sciences | Spanish | Portuguese |
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SPAN-3230 (3) Discovering Barcelona: Culture and Heritage

Presents more than 2,000 years of Barcelona's cultural heritage in the city of Barcelona from the Romans to the present. We will read works by locals and foreign authors to understand how the city has been a hub of the European and Mediterranean cultures for centuries. This is a faculty sponsored Global Seminar to Barcelona, Spain, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3240 (3) Catalan Culture 1: Nation and Art

Introduces students to the literary, artistic, and historical currents of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people, its capital Barcelona, and a distinct culture and language. The course examines national identity and major works from renowned Catalan artists, spanning architecture, painting, and literature, like Dalí, Gaudí, or Miró. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3250 (3) Catalan Culture 2: Contemporary Trends and Barcelona

Introduces students to the contemporary social and cultural trends of Catalonia as they take place mainly in its capital Barcelona. The course examines current developments in fields such as theatre, art, fashion, cooking, urban design or architecture. Prereq., SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-3260 (3) Late 19th and 20th Century Argentine Narrative

Considers a series of late 19th and 20th century canonical works from several genres (poetry, short story, essay, and the novel). The student will acquire a very specific knowledge of late 19th

and 20th century Argentine literature, its relationship to specific social actors and specific historical processes. This is a faculty sponsored Global Seminar to Rosario, Argentina, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3270 (3) Barcelona: Understanding Local and Immigrant Cultures

Explores the history of Barcelona, a cosmopolitan city that is one of the oldest in Europe, from an interdisciplinary, European perspective that emphasizes the city's cultural diversity and pluralism. A range of historical, literary, artistic, and sociological texts will be examined. Taught in Spanish. Offered through the Study Abroad program. Prereq., SPAN 3000. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Spanish Spanish

SPAN-3280 (3) Introduction to Catalan Literature & Film

Introduces students to the rich and diverse literary and film traditions of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people and a distinct culture and language. Prereq., SPAN 3000 or equivalent. Course taught in Spanish.

College of Arts & Sciences Spanish Spanish

SPAN-3310 (3) 20th Century Spanish Literature

Surveys leading writers of Spain from 1898 until the present. Prereq., SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-3340 (3) 20th Century Spanish American Literature

Introduces contemporary Spanish American literature. Prereq., SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-3800 (3) Selected Readings: Latin American Literature in Translation

Introduces selected Latin American (Spanish and Portuguese) literature masterpieces. Taught in English. Does not count toward the Spanish major. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Spanish Spanish

SPAN-4010 (3) Advanced Rhetoric and Composition.

Designed to improve written expression in Spanish. Offers a detailed study of nuances of grammar points most difficult for students. Gives attention to errors in student compositions and to various styles of written Spanish. Prereqs., SPAN 3100 and 3120 or equivalent. Similar to SPAN 3010.

College of Arts & Sciences Spanish Spanish

SPAN-4060 (3) Problems of Business Translation in Spanish 1

Develops skills in English-Spanish and Spanish-English translation and interpretation. Prereq., SPAN 3040 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-4070 (3) Problems of Business Translation in Spanish 2

Legal and commercial documents are studied, prepared, and discussed to enable students to perform successfully in real translation situations. Prereq., SPAN 4060 or equivalent. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

College of Arts & Sciences Spanish Spanish

PORT-4110 (3) Survey of Brazilian Literature

Examines major works of Brazilian literature. Prereqs., PORT 2120, 2350 and 3230 (min. grade C-) or equivalent. Same as PORT 5110.

College of Arts & Sciences Spanish Portuguese

SPAN-4110 (3) Hispanic Women Writers

Discusses the image of women in Spanish literature through the centuries using works by representative female writers. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

PORT-4150 (3) Survey of Portuguese Literature

Examines major works of Portuguese literature. Prereqs., PORT 2120, 2350, and 3230 (min. grade C-) or equivalent. Same as PORT 5150.

College of Arts & Sciences Spanish Portuguese

SPAN-4150 (3) Masterpieces of Spanish Literature to 1700

Treats major literary tendencies of Spanish literature from its origins to the end of the Baroque period. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4160 (3) Masterpieces of Spanish Literature: 1700 to Present

Requires a reading of selected masterpieces and an examination of major movements and figures in the literature of Spain from 1700 to the present. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4170 (3) Masterpieces of Spanish American Literature to 1898

Examines major works of Spanish American literature from the colonial period to the late 19th century. Emphasizes major figures and their works. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4180 (3) Masterpieces of Spanish American Literature: 1898 to Present

Examines major works of Spanish American literature from late 19th century to present. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4220 (1-3) Special Topics in Spanish and/or Spanish American Literature

Examines intensively particular topics or issues concerning Spanish and/or Spanish American literature selected by the instructor. May be repeated up to 7 total credit hours. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

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Courses

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PORT-4230 (3) Special Topics in Luso-Brazilian and/or African Literature

Designed to examine intensively particular topics or issues concerning the literatures of Portugal, Brazil, and/or the African countries of Portuguese colonization. Taught in Spanish. May be repeated up to 6 total credit hours. Prereqs., PORT 3230, SPAN 3100, 3120, and an additional course above SPAN 3000. Same as SPAN 4230.

[College of Arts & Sciences](#) [Spanish](#) [Portuguese](#)

SPAN-4230 (3) Special Topics in Luso-Brazilian and/or African Literature

Designed to examine intensively particular topics or issues concerning the literatures of Portugal, Brazil, and/or the African countries of Portuguese colonization. Taught in Spanish. May be repeated up to 6 total credit hours. Prereqs., PORT 3230, SPAN 3100, 3120, and an additional course above SPAN 3000. Same as PORT 4230.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

SPAN-4430 (3) Special Topics in Hispanic Linguistics

Examines intensively particular topics or issues concerning Hispanic linguistics selected by the instructor. May be repeated up to 9 total credit hours on different topics. Prereqs., SPAN 3100, 3120, and an additional course above 3000.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

SPAN-4450 (3) Introduction to Hispanic Linguistics

Introduces students to the main areas of inquiry within the field of Hispanic linguistics. Topics to be covered include speech and language, phonetics and phonology, morphology and syntax, semantics, linguistic change and variation, and Spanish spoken in the United States. Prereqs., SPAN 3100, 3120, and an additional course above 3000. Same as SPAN 5450.

College of Arts & Sciences Spanish Spanish

SPAN-4500 (3) Methods of Teaching Hispanic Literature and Cultures

Introduces the methodologies associated with teaching Hispanic literature and culture in the secondary schools. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Same as SPAN 5500.

College of Arts & Sciences Spanish Spanish

SPAN-4620 (3) Cervantes

Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4650 (3) Methods of Teaching Spanish

Familiarizes students with current methodology and techniques in foreign language teaching. Peer-teaching coupled with opportunity to teach mini-lessons provide students with actual teaching experience in the foreign language classroom. Prereqs., SPAN 3100, 3120, an additional course above SPAN 3000, and admission to the teacher certification program or departmental approval. Same as SPAN 5650.

College of Arts & Sciences Spanish Spanish

SPAN-4660 (6) High School Spanish Teaching

Part of supervised secondary school teaching required for state certification to teach Spanish. These hours do not count toward student hours in the major nor in the total departmental hours allowed. The credit is pass/fail only. Prereq., SPAN 4650/5650.

College of Arts & Sciences Spanish Spanish

PORT-4840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., departmental approval.

College of Arts & Sciences Spanish Portuguese

SPAN-4840 (1-3) Independent Study

Departmental approval required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Spanish Spanish

SPAN-4930 (1-4) Languages Internship for Professions

Participants interested in public service or management-oriented careers in government or business are able to work as interns in public sector agencies or in private industry, on campus, or abroad. Prereqs., SPAN 3100 and 3200, an additional course above SPAN 3000, and departmental approval. Instructor consent required.

College of Arts & Sciences Spanish Spanish

SPAN-4980 (1) Methods Language Learn/Pedagogy

Required, intensive mini-course for teaching assistants in Spanish and Portuguese. Provides teachers with the opportunity to learn about language learning theory and pedagogy. Prereq., graduate standing or departmental consent.

College of Arts & Sciences Spanish Spanish

SPAN-4990 (3) Spanish Honors Thesis

May be repeated up to 7 total credit hours. Prereqs., 18 hours of upper-division Spanish (3.00 GPA overall and 3.50 GPA in Spanish).

College of Arts & Sciences Spanish Spanish

PORT-5110 (3) Survey of Brazilian Literature

Same as PORT 4110.

College of Arts & Sciences Spanish Portuguese

SPAN-5120 (1-3) Seminar: Spanish Literature and/or Spanish American Literature

Selected topics in Spanish and/or Spanish American literature. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7120. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5130 (1-3) Seminar: Critical Approaches to Hispanic Literature

Treats various topics and genres, as needs and resources dictate. Gives special attention to theoretical and critical analysis of Hispanic literature with greatest emphasis on contemporary trends. Genres might include narrative, poetry, and theatre. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7130. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5140 (3) Seminar: Spanish Literature, Medieval Period

Studies medieval works, authors, and themes, with consideration of principal influences from other literatures. Reading in Old Spanish. May be repeated up to 6 total credit hours. Prereq., graduate standing and SPAN 5420 or 7420 or instructor consent. Same as SPAN 7140.

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| College of Arts & Sciences | Spanish | Spanish |
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PORT-5150 (3) Survey of Portuguese Literature

Same as PORT 4150.

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| College of Arts & Sciences | Spanish | Portuguese |
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SPAN-5200 (3) Seminar: Spanish Literature, Renaissance and Baroque

Treats various topics, as needs and resources dictate. Special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include Renaissance poetry in Spain, Cervantes, Don Quixote, and Novelas ejemplares, picaresque novel, and the Spanish comedia of the 17th century. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7200. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5210 (2-4) Seminar: Spanish Literature, 18th and/or 19th Centuries

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include romantic prose, poetry and theatre, realism and naturalism (prose narrative), 19th century poetry, and 19th century theatre. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7210. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5220 (1-3) Seminar: Spanish Literature, 20th Century

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include the generation of 1898, poetry of the 20th century, theatre of the 20th century, pre-Civil War novel, and post-Civil War novel. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5300 (2-4) Seminar: Spanish American Literature, Colonial Period and/or 19th Century

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include pre-Columbian literature, colonial prose and narrative, colonial poetry, romantic novel, the realist and naturalist novel and short story, 19th-century poetry, and gaucho literature. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5320 (1-3) Seminar: 20th Century Spanish American Literature

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include modernism, theatre, the essay, the regional novel, the novel of the Mexican Revolution, the modern novel, contemporary theatre, and contemporary poetry. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or department consent. Same as SPAN 7320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5400 (2-4) Seminar: Spanish Phonology

Topics within Spanish phonology are treated, as needs and resources dictate. Gives special attention to different schools and contemporary theoretical developments. Representative topics might include generative phonology applied to Spanish, Spanish phonology for college teaching, and different schools of Spanish phonology. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7400.

College of Arts & Sciences Spanish Spanish

SPAN-5410 (2-4) Seminar: Spanish Syntax

Treats topics within Spanish syntax, each requiring a semester's study, as needs and resources dictate. Gives special attention to different schools and contemporary theoretical developments. Representative topics may include generative/transformational grammar applied to Spanish, fundamental problems in Spanish syntax, and different schools of Spanish syntax. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7410.

College of Arts & Sciences Spanish Spanish

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SPAN-5420 (2-4) Seminar: History of the Spanish Language

Treats topics within the history of the Spanish language, as needs and resources dictate. Concerned with linguistic evolution of Spanish from neo-Latino its present status as a world language; considers important historic, linguistic, literary, and cultural currents. Representative topics might include a diachronic study of Spanish linguistic forms, the extension of Spanish to the New World, and linguistic and literary texts in Old Spanish. May be repeated up to 7 total credit hours. Prereq., graduate standing in Span or Departmental Consent. Same as SPAN 7420.20.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

SPAN-5430 (1-3) Seminar: Hispanic Linguistics

Studies a major topic from an area such as phonology, syntax, history of the Spanish language, Hispanic linguistics and literature, or applied Hispanic linguistics. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7430.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

SPAN-5440 (3) Seminar: Trends in Hispanic Linguistics

Provides an overview of major trends and issues in Hispanic linguistics, including phonology, syntax, dialectology, sociolinguistics, discourse analysis, text linguistics, semiotics, history of the Spanish language, language acquisition, and applied linguistics. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7440. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

SPAN-5450 (3) Introduction to Hispanic Literature Linguistics

Same as Span 4450.

College of Arts & Sciences Spanish Spanish

SPAN-5460 (3) Topics in Spanish Applied Linguistics

Treats topics within the scope of Spanish first and second language acquisition and the speech of bilinguals. Other topics include contrasting linguistics, interlingual stages of learning, and code switching as they relate to language acquisition. Prereq., graduate standing or instructor consent. Same as Span 7460.

College of Arts & Sciences Spanish Spanish

SPAN-5500 (3) Seminar: Methods of Teaching Hispanic Literature and Cultures

Same as SPAN 4500.

College of Arts & Sciences Spanish Spanish

SPAN-5650 (3) Methods of Teaching Spanish

Same as SPAN 4650.

College of Arts & Sciences Spanish Spanish

SPAN-6840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-6940 (1) Master's Degree Candidate

Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-6950 (1-6) Master's Thesis

Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences | Spanish | Spanish

SPAN-7120 (1-3) Seminar: Spanish Literature and/or Spanish American Literature

Same as SPAN 5120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7130 (1-3) Seminar: Critical Approaches to Hispanic Literature

Same as SPAN 5130. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7140 (3) Seminar: Spanish Literature, Medieval Period

Same as SPAN 5140. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Spanish | Spanish

SPAN-7200 (3) Seminar: Spanish Literature, Renaissance and Baroque

Same as SPAN 5200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7210 (2-4) Seminar: Spanish Literature, 18th and/or 19th Centuries

Same as SPAN 5210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7220 (1-3) Seminar: Spanish Literature, 20th Century

Same as SPAN 5220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

College of Arts & Sciences Spanish Spanish

SPAN-7300 (2-4) Seminar: Spanish American Literature, Colonial Period and/or 19th Century

Same as SPAN 5300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7320 (1-3) Seminar: 20th Century Spanish American Literature

Same as SPAN 5320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7400 (2-4) Seminar: Spanish Phonology

Same as SPAN 5400.

College of Arts & Sciences Spanish Spanish

SPAN-7410 (2-4) Seminar: Spanish Syntax

Same as SPAN 5410.

College of Arts & Sciences Spanish Spanish

SPAN-7420 (2-4) Seminar: History of the Spanish Language

Same as SPAN 5420.

College of Arts & Sciences Spanish Spanish

SPAN-7430 (1-3) Seminar: Hispanic Linguistics

Same as SPAN 5430.

College of Arts & Sciences Spanish Spanish

SPAN-7440 (3) Seminar: Trends in Hispanic Linguistics

Same as SPAN 5440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7460 (3) Topics in Spanish Language Acquisition and Applied Linguistics

Same as SPAN 5460.

College of Arts & Sciences | Spanish | Spanish

SPAN-8840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences | Spanish | Spanish

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SPAN-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prereq., graduate standing in Spanish or departmental approval.

[College of Arts & Sciences](#)
[Spanish](#)
[Spanish](#)



SPAN-3200 (3) Spanish Culture

Examines historical bases of modern Spain's cultural and political currents. Prereq., SPAN 3000.

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SPAN-3210 (3) The Cultural Heritage of Latin America

Examines literary, artistic, and philosophical currents in Latin America beginning with pre-Columbian indigenous cultures and continuing to the present. Prereq., SPAN 3000. Credit not granted for this course and SPAN 3220.

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SPAN-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as PORT 3220.

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SPAN-3230 (3) Discovering Barcelona: Culture and Heritage

Presents more than 2,000 years of Barcelona's cultural heritage in the city of Barcelona from the Romans to the present. We will read works by locals and foreign authors to understand how the city has been a hub of the European and Mediterranean cultures for centuries. This is a faculty sponsored Global Seminar to Barcelona, Spain, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

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SPAN-3240 (3) Catalan Culture 1: Nation and Art

Introduces students to the literary, artistic, and historical currents of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people, its capital Barcelona, and a distinct culture and language. The course examines national identity and major works from renowned Catalan artists, spanning architecture, painting, and literature, like Dali, Gaudi, or Miro. Prereq., SPAN 3000.

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SPAN-3250 (3) Catalan Culture 2: Contemporary Trends and Barcelona

Introduces students to the contemporary social and cultural trends of Catalonia as they take place mainly in its capital Barcelona. The course examines current developments in fields such as theatre, art, fashion, cooking, urban design or architecture. Prereq., SPAN 3000.

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SPAN-3260 (3) Late 19th and 20th Century Argentine Narrative

Considers a series of late 19th and 20th century canonical works from several genres (poetry, short story, essay, and the novel). The student will acquire a very specific knowledge of late 19th and 20th century Argentine literature, its relationship to specific social actors and specific historical processes. This is a faculty sponsored Global Seminar to Rosario, Argentina, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

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SPAN-3270 (3) Barcelona: Understanding Local and Immigrant Cultures

Explores the history of Barcelona, a cosmopolitan city that is one of the oldest in Europe, from an interdisciplinary, European perspective that emphasizes the city's cultural diversity and pluralism. A range of historical, literary, artistic, and sociological texts will be examined. Taught in Spanish. Offered through the Study Abroad program. Prereq., SPAN 3000. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Spanish Spanish

SPAN-3280 (3) Introduction to Catalan Literature & Film

Introduces students to the rich and diverse literary and film traditions of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people and a distinct culture and language. Prereq., SPAN 3000 or equivalent. Course taught in Spanish.

College of Arts & Sciences Spanish Spanish

SPAN-3310 (3) 20th Century Spanish Literature

Surveys leading writers of Spain from 1898 until the present. Prereq., SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-3340 (3) 20th Century Spanish American Literature

Introduces contemporary Spanish American literature. Prereq., SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-3800 (3) Selected Readings: Latin American Literature in Translation

Introduces selected Latin American (Spanish and Portuguese) literature masterpieces. Taught in English. Does not count toward the Spanish major. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Spanish Spanish

SPAN-4010 (3) Advanced Rhetoric and Composition.

Designed to improve written expression in Spanish. Offers a detailed study of nuances of grammar points most difficult for students. Gives attention to errors in student compositions and to various styles of written Spanish. Prereqs., SPAN 3100 and 3120 or equivalent. Similar to SPAN 3010.

College of Arts & Sciences Spanish Spanish

SPAN-4060 (3) Problems of Business Translation in Spanish 1

Develops skills in English-Spanish and Spanish-English translation and interpretation. Prereq., SPAN 3040 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-4070 (3) Problems of Business Translation in Spanish 2

Legal and commercial documents are studied, prepared, and discussed to enable students to perform successfully in real translation situations. Prereq., SPAN 4060 or equivalent. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

College of Arts & Sciences Spanish Spanish

SPAN-4110 (3) Hispanic Women Writers

Discusses the image of women in Spanish literature through the centuries using works by representative female writers. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4150 (3) Masterpieces of Spanish Literature to 1700

Treats major literary tendencies of Spanish literature from its origins to the end of the Baroque period. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4160 (3) Masterpieces of Spanish Literature: 1700 to Present

Requires a reading of selected masterpieces and an examination of major movements and figures in the literature of Spain from 1700 to the present. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4170 (3) Masterpieces of Spanish American Literature to 1898

Examines major works of Spanish American literature from the colonial period to the late 19th century. Emphasizes major figures and their works. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4180 (3) Masterpieces of Spanish American Literature: 1898 to Present

Examines major works of Spanish American literature from late 19th century to present. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4220 (1-3) Special Topics in Spanish and/or Spanish American Literature

Examines intensively particular topics or issues concerning Spanish and/or Spanish American literature selected by the instructor. May be repeated up to 7 total credit hours. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4230 (3) Special Topics in Luso-Brazilian and/or African Literature

Designed to examine intensively particular topics or issues concerning the literatures of Portugal, Brazil, and/or the African countries of Portuguese colonization. Taught in Spanish. May be repeated up to 6 total credit hours. Prereqs., PORT 3230, SPAN 3100, 3120, and an additional course above SPAN 3000. Same as PORT 4230.

College of Arts & Sciences Spanish Spanish

SPAN-4430 (3) Special Topics in Hispanic Linguistics

Examines intensively particular topics or issues concerning Hispanic linguistics selected by the instructor. May be repeated up to 9 total credit hours on different topics. Prereqs., SPAN 3100, 3120, and an additional course above 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-4450 (3) Introduction to Hispanic Linguistics

Introduces students to the main areas of inquiry within the field of Hispanic linguistics. Topics to be covered include speech and language, phonetics and phonology, morphology and syntax, semantics, linguistic change and variation, and Spanish spoken in the United States. Prereqs., SPAN 3100, 3120, and an additional course above 3000. Same as SPAN 5450.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-4500 (3) Methods of Teaching Hispanic Literature and Cultures

Introduces the methodologies associated with teaching Hispanic literature and culture in the secondary schools. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Same as SPAN 5500.

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SPAN-4620 (3) Cervantes

Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-4650 (3) Methods of Teaching Spanish

Familiarizes students with current methodology and techniques in foreign language teaching. Peer-teaching coupled with opportunity to teach mini-lessons provide students with actual teaching experience in the foreign language classroom. Prereqs., SPAN 3100, 3120, an additional course above SPAN 3000, and admission to the teacher certification program or departmental approval. Same as SPAN 5650.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-4660 (6) High School Spanish Teaching

Part of supervised secondary school teaching required for state certification to teach Spanish. These hours do not count toward student hours in the major nor in the total departmental hours allowed. The credit is pass/fail only. Prereq., SPAN 4650/5650.

College of Arts & Sciences Spanish Spanish

SPAN-4840 (1-3) Independent Study

Departmental approval required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Spanish Spanish

SPAN-4930 (1-4) Languages Internship for Professions

Participants interested in public service or management-oriented careers in government or business are able to work as interns in public sector agencies or in private industry, on campus, or abroad. Prereqs., SPAN 3100 and 3200, an additional course above SPAN 3000, and departmental approval. Instructor consent required.

College of Arts & Sciences Spanish Spanish

SPAN-4980 (1) Methods Language Learn/Pedagogy

Required, intensive mini-course for teaching assistants in Spanish and Portuguese. Provides teachers with the opportunity to learn about language learning theory and pedagogy. Prereq., graduate standing or departmental consent.

College of Arts & Sciences Spanish Spanish

SPAN-4990 (3) Spanish Honors Thesis

May be repeated up to 7 total credit hours. Prereqs., 18 hours of upper-division Spanish (3.00 GPA overall and 3.50 GPA in Spanish).

College of Arts & Sciences Spanish Spanish



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SPAN-5120 (1-3) Seminar: Spanish Literature and/or Spanish American Literature

Selected topics in Spanish and/or Spanish American literature. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-5130 (1-3) Seminar: Critical Approaches to Hispanic Literature

Treats various topics and genres, as needs and resources dictate. Gives special attention to theoretical and critical analysis of Hispanic literature with greatest emphasis on contemporary trends. Genres might include narrative, poetry, and theatre. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7130. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-5140 (3) Seminar: Spanish Literature, Medieval Period

Studies medieval works, authors, and themes, with consideration of principal influences from other literatures. Reading in Old Spanish. May be repeated up to 6 total credit hours. Prereq., graduate standing and SPAN 5420 or 7420 or instructor consent. Same as SPAN 7140.

College of Arts & Sciences | Spanish | Spanish

SPAN-5200 (3) Seminar: Spanish Literature, Renaissance and Baroque

Treats various topics, as needs and resources dictate. Special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include Renaissance poetry in Spain, Cervantes, Don Quixote, and Novelas ejemplares, picaresque novel, and the Spanish comedia of the 17th century. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5210 (2-4) Seminar: Spanish Literature, 18th and/or 19th Centuries

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include romantic prose, poetry and theatre, realism and naturalism (prose narrative), 19th century poetry, and 19th century theatre. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5220 (1-3) Seminar: Spanish Literature, 20th Century

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include the generation of 1898, poetry of the 20th century, theatre of the 20th century, pre-Civil War novel, and post-Civil War novel. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5300 (2-4) Seminar: Spanish American Literature, Colonial Period and/or 19th Century

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include pre-Columbian literature, colonial prose and narrative, colonial poetry, romantic novel, the realist and naturalist novel and short story, 19th-century poetry, and gaucho literature. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5320 (1-3) Seminar: 20th Century Spanish American Literature

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include modernism, theatre, the essay, the regional novel, the novel of the Mexican Revolution, the modern novel, contemporary theatre, and contemporary poetry. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or department consent. Same as SPAN 7320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5400 (2-4) Seminar: Spanish Phonology

Topics within Spanish phonology are treated, as needs and resources dictate. Gives special attention to different schools and contemporary theoretical developments. Representative topics might include generative phonology applied to Spanish, Spanish phonology for college teaching, and different schools of Spanish phonology. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7400.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5410 (2-4) Seminar: Spanish Syntax

Treats topics within Spanish syntax, each requiring a semester's study, as needs and resources dictate. Gives special attention to different schools and contemporary theoretical developments. Representative topics may include generative/transformational grammar applied to Spanish, fundamental problems in Spanish syntax, and different schools of Spanish syntax. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7410.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5420 (2-4) Seminar: History of the Spanish Language

Treats topics within the history of the Spanish language, as needs and resources dictate. Concerned with linguistic evolution of Spanish from neo-Latino to its present status as a world language; considers important historic, linguistic, literary, and cultural currents. Representative topics might include a diachronic study of Spanish linguistic forms, the extension of Spanish to the New World, and linguistic and literary texts in Old Spanish. May be repeated up to 7 total credit hours. Prereq., graduate standing in Span or Departmental Consent. Same as SPAN 7420.20.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5430 (1-3) Seminar: Hispanic Linguistics

Studies a major topic from an area such as phonology, syntax, history of the Spanish language, Hispanic linguistics and literature, or applied Hispanic linguistics. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7430.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5440 (3) Seminar: Trends in Hispanic Linguistics

Provides an overview of major trends and issues in Hispanic linguistics, including phonology, syntax, dialectology, sociolinguistics, discourse analysis, text linguistics, semiotics, history of the Spanish language, language acquisition, and applied linguistics. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7440. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5450 (3) Introduction to Hispanic Literature Linguistics

Same as Span 4450.

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| College of Arts & Sciences | Spanish | Spanish |
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SPAN-5460 (3) Topics in Spanish Applied Linguistics

Treats topics within the scope of Spanish first and second language acquisition and the speech of bilinguals. Other topics include contrasting linguistics, interlingual stages of learning, and code switching as they relate to language acquisition. Prereq., graduate standing or instructor consent. Same as Span 7460.

College of Arts & Sciences Spanish Spanish

SPAN-5500 (3) Seminar: Methods of Teaching Hispanic Literature and Cultures

Same as SPAN 4500.

College of Arts & Sciences Spanish Spanish

SPAN-5650 (3) Methods of Teaching Spanish

Same as SPAN 4650.

College of Arts & Sciences Spanish Spanish

SPAN-6840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-6940 (1) Master's Degree Candidate

Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-6950 (1-6) Master's Thesis

Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-7120 (1-3) Seminar: Spanish Literature and/or Spanish American Literature

Same as SPAN 5120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7130 (1-3) Seminar: Critical Approaches to Hispanic Literature

Same as SPAN 5130. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7140 (3) Seminar: Spanish Literature, Medieval Period

Same as SPAN 5140. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Spanish | Spanish

SPAN-7200 (3) Seminar: Spanish Literature, Renaissance and Baroque

Same as SPAN 5200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7210 (2-4) Seminar: Spanish Literature, 18th and/or 19th Centuries

Same as SPAN 5210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

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SPAN-7220 (1-3) Seminar: Spanish Literature, 20th Century

Same as SPAN 5220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7300 (2-4) Seminar: Spanish American Literature, Colonial Period and/or 19th Century

Same as SPAN 5300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

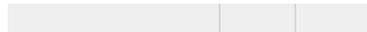
SPAN-7320 (1-3) Seminar: 20th Century Spanish American Literature

Same as SPAN 5320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

SPAN-7400 (2-4) Seminar: Spanish Phonology

Same as SPAN 5400.



College of Arts & Sciences Spanish Spanish

SPAN-7410 (2-4) Seminar: Spanish Syntax

Same as SPAN 5410.

College of Arts & Sciences Spanish Spanish

SPAN-7420 (2-4) Seminar: History of the Spanish Language

Same as SPAN 5420.

College of Arts & Sciences Spanish Spanish

SPAN-7430 (1-3) Seminar: Hispanic Linguistics

Same as SPAN 5430.

College of Arts & Sciences Spanish Spanish

SPAN-7440 (3) Seminar: Trends in Hispanic Linguistics

Same as SPAN 5440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7460 (3) Topics in Spanish Language Acquisition and Applied Linguistics

Same as SPAN 5460.

College of Arts & Sciences Spanish Spanish

SPAN-8840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences | Spanish | Spanish

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ENGL-1260 (3) Introduction to Women's Literature

Introduces literature by women in England and America. Covers both poetry and fiction and varying historical periods. Acquaints students with the contribution of women writers to the English literary tradition and investigates the nature of this contribution. Same as WMST 1260. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences English General Literature & Language

ENGL-1500 (3) Masterpieces of British Literature

Introduces students to a range of major works of British literature, including at least one play by Shakespeare, a pre-20th century English novel, and works by Chaucer and/or Milton. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences English General Literature & Language

ENGL-1600 (3) Masterpieces of American Literature

Enhances student understanding of the American literary and artistic heritage through an intensive study of a few centrally significant texts, emphasizing works written before the 20th century. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences English General Literature & Language

ENGL-1800 (3) American Ethnic Literatures

Introduces significant fiction by ethnic Americans. Explores both the literary and the cultural elements that distinguish work by these writers. Emphasizes materials from Native American, African American, and Chicano traditions. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | English | General Literature & Language

ENGL-2022 (5) Literary Analysis (with Lab)

Provides basic skills for the English major, enhanced with a language arts lab. Emphasizes critical writing and the acquisition of the techniques and vocabulary of criticism through close attention to literary language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors. Credit not granted for this course and English 2000. Formerly ENGL 2020. Prerequisites: Restricted to English majors only.

College of Arts & Sciences | English | General Literature & Language

ENGL-2102 (3) Literary Analysis

Provides a basic skills course designed to equip students to handle the English major. Emphasizes critical writing and the acquisition of basic techniques and vocabulary of literary criticism through close attention to poetic and prose language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors only. Credit not granted for this course and ENGL 1010. Formerly ENGL 2000. Prerequisites: Restricted to English majors only.

College of Arts & Sciences | English | General Literature & Language

ENGL-2112 (3) Introduction to Literary Theory

Introduces students to a wide range of critical theories that English majors need to know. Covers major movements in modern literary/critical theory, from Matthew Arnold through new criticism to contemporary postmodern frameworks. Required for all English majors. Restricted to English majors only. Formerly ENGL 2010. Prerequisites: Restricted to English majors only.

College of Arts & Sciences | English | General Literature & Language

ENGL-2620 (3) Introduction to Western European Literature 1

Close study of literary classics of Western civilization: the Odyssey or Iliad, Greek drama, and several books of the Bible. Formerly ENGL 2602.

College of Arts & Sciences | English | General Literature & Language

ENGL-2630 (3) Introduction to Western European Literature 2

Close study of literary classics of Western civilization: major Roman and medieval texts. Formerly ENGL 2612.

College of Arts & Sciences | English | General Literature & Language

ENGL-3000 (3) Shakespeare for Nonmajors

Introduces students to Shakespeare's major works: the histories, comedies, and tragedies. May include the nondramatic poetry as well. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | General Literature & Language

ENGL-3010 (3) History of the English Language

Introduces students to the historical stages of English from Anglo-Saxon, c. 500, to Modern English. Considers both language change and the role of language in historical and political phenomena such as globalization (including the spread of English and the emergence of different dialects) and past and present debates about standard language, canon formation, and culture.

College of Arts & Sciences | English | General Literature & Language

ENGL-3060 (3) Modern and Contemporary Literature for Nonmajors

Close study of significant 20th century poetry, drama, and prose works. Readings range from 1920s to the present. Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | General Literature & Language

ENGL-3930 (1-6) Internship

Provides academically supervised opportunity for upper-division students to work in public or private organizations on projects related to students' career goals and to relate classroom theory to practice. May be repeated up to 6 total credit hours. Restricted to students with 57-180 credits (Junior or Senior) and instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | General Literature & Language

ENGL-3940 (1-3) Service Learning Practicum

Under faculty supervision, students participate in a service project correlated with the academic subject. May be repeated up to 6 total credit hours.

College of Arts & Sciences | English | General Literature & Language

ENGL-4250 (3) Modern and Contemporary Novel

Close study of masterpieces by such novelists as Proust, Joyce, Woolf, Lawrence, Mann, Kafka, and Faulkner. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | General Literature & Language

ENGL-4360 (3) Modern Drama.

Explores continental, British, and American drama since Ibsen. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-4460 (3) Modern Poetry

Selects works of British and American poets from 1900 to the present. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-4820 (3) Honors Seminar

Prepares prospective honors students to write honors theses. Focuses on sharpening the skills needed to write a successful thesis, including research techniques and the ability to evaluate and respond to secondary materials. May not be repeated. Prereq., instructor consent. Restricted to junior and senior English majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-4830 (3) Honors Thesis

Students accepted to English Departmental Honors are enrolled in this course.

College of Arts & Sciences English General Literature & Language

ENGL-4840 (1-3) Independent Study---Upper Division

Creative writing. May be repeated up to 8 total credit hours.

College of Arts & Sciences English General Literature & Language

ENGL-4850 (1-3) Independent Study---Upper Division

Literature/language. May be repeated up to 8 total credit hours.

College of Arts & Sciences English General Literature & Language

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ENGL-1191 (3) Introduction to Creative Writing

Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and may be discussed in a workshop atmosphere with other students. May not be taken concurrently with ENGL 2021 or 2051. May not be repeated. Not open to graduate students.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

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ENGL-1260 (3) Introduction to Women's Literature

Introduces literature by women in England and America. Covers both poetry and fiction and varying historical periods. Acquaints students with the contribution of women writers to the English literary tradition and investigates the nature of this contribution. Same as WMST 1260. Approved for arts and sciences core curriculum; human diversity.

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ENGL-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ATLS 2036. Formerly ENGL 2030.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3116 (3) Topics in Advanced Theory

Studies special topics in theory; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3226 (3) Folklore

Emphasizes formal study of folk traditions (including tales, songs, games, customs, beliefs, and crafts) within a theoretical framework, using examples from several cultures. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3246 (3) Topics in Popular Culture

Studies special topics in popular culture; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to sophomore, junior, or senior English or Humanities Majors only.

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| College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult |
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ENGL-3796 (3) Queer Theory

Surveys theoretical, critical, and historical writings in the context of lesbian, bisexual, and gay literature. Examines relationships among aesthetic, cultural, and political agendas, and literary and visual texts of the 20th century. Same as LGBT 3796. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

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| College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult |
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ENGL-3856 (3) Topics in Genre Studies

Studies special topics in genre studies; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN), Film (FILM or FMST) or Theatre (THTR or TBFA) majors only.

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| College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult |
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ENGL-4026 (3) Special Topics in Genre, Media, and Advanced Writing

Studies theoretical and historical approaches to genre, media, and writing at the advanced level. May be repeatable for a total of 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult |
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ENGL-4116 (3) Advanced Topics in Media Studies

Studies specialized topics in the history, theory, and practice of media, such as the history of the book, the theory of digital media, and the theory and practice of multimedia forms. Specially designed for English majors. Topics vary year to year. May be repeated up to 6 total credit hours. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult |
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ENGL-4286 (3) Folklore 2

Upper-division studies of folk groups, events, texts, and contexts as they reflect traditional knowin---folk perceptions and teachings about the structure and purpose of the universe. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult |
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ENGL-1500 (3) Masterpieces of British Literature

Introduces students to a range of major works of British literature, including at least one play by Shakespeare, a pre-20th century English novel, and works by Chaucer and/or Milton. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

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ENGL-1600 (3) Masterpieces of American Literature

Enhances student understanding of the American literary and artistic heritage through an intensive study of a few centrally significant texts, emphasizing works written before the 20th century.
Approved for arts and sciences core curriculum: literature and the arts.

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ENGL-1800 (3) American Ethnic Literatures

Introduces significant fiction by ethnic Americans. Explores both the literary and the cultural elements that distinguish work by these writers. Emphasizes materials from Native American, African American, and Chicano traditions. Approved for arts and sciences core curriculum: human diversity.

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ENGL-2021 (3) Introductory Poetry Workshop

Introductory course in poetry writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Not open to graduate students.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

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ENGL-2022 (5) Literary Analysis (with Lab)

Provides basic skills for the English major, enhanced with a language arts lab. Emphasizes critical writing and the acquisition of the techniques and vocabulary of criticism through close attention to literary language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors. Credit not granted for this course and English 2000. Formerly ENGL 2020. Prerequisites: Restricted to English majors only.

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ENGL-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ATLS 2036. Formerly ENGL 2030.

[College of Arts & Sciences](#) | [English](#) | [Advanced Thry, Genre, Pop Cult](#)

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ENGL-2058 (3) Twentieth- and Twentyfirst-Century Literature

Surveys the major literary trends in prose and poetry from 1900 to the present in the Anglo-American tradition of modern, postmodern, and contemporary literature. Provides students with a grounding in the major authors and motifs of 20th- and 21st-century in literature connection with political and cultural changes across the periods.

[College of Arts & Sciences](#) [English](#) [Critical Studies in English](#)

ENGL-3008 (3) Developments in the Novel, Post-1900

Introduces students to the major works, authors, and formal trends of the 20th and 21st-century novel. Texts may be drawn from British, American, and global literary traditions. The course may also focus on a specific movement, development, or transformation in the genre post-1900, for instance, modernism, postmodernism, naturalism, realism, postcolonial fiction, historical fiction, and so forth. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [English](#) [Critical Studies in English](#)

ENGL-3068 (3) Literature in English, 1900-1945

Surveys major literary trends from 1900-1945 in the Anglo-American tradition, including the characteristics of literary modernism. Covers both prose and poetry, as well as the relationship between literature and history to the close of World War II. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

[College of Arts & Sciences](#) [English](#) [Critical Studies in English](#)

ENGL-3078 (3) Literature in English, 1945-Present

Explores major literary and theoretical trends in the Anglo-American tradition after 1945. Recommended prereqs., ENGL 2000 and 2058. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-3088 (3) Major Authors of Post-1900 Literature

Provides an in-depth study of the work of one or two major authors in the Anglo-American tradition after 1900. May be repeated for a total of 9 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-4039 (3) Critical Thinking in English Studies

Concerned with developments in the study of literature that have significantly influenced our conception of the theoretical bases for study and expanded our understanding of appropriate subject matter. May not be repeated. Formerly ENGL 4038. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences | English | Critical Studies in English

ENGL-4098 (3) Special Topics in Post-1900 Literature in English

Explores a special topic in literature written in, or translated into English, post-1900. May be repeated up to a total of 6 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

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ENGL-2115 (3) American Frontiers

Considers the backdrop of the American West in literature, film, photography, and gaming. We will focus on a range of narratives and images depicting this wide swathe of American geography while simultaneously cultivating close reading skills, digital media analysis and film analysis that will aid you in deeper insights at the textual level. Approved for arts and sciences core curriculum: U.S. context.

College of Arts & Sciences | English | American Literature

ENGL-2655 (3) Introduction to American Literature I

Chronological survey of the literature from Bradford to Whitman. Restricted to English, humanities, and film studies majors only. Credit not granted for this course and ENGL 3654. Similar to ENGL 3655. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

College of Arts & Sciences | English | American Literature

ENGL-2665 (3) Introduction to American Literature 2

Chronological survey of the literature from Whitman to Faulkner. Continuation of ENGL 3655. Credit not granted for this course and ENGL 3664. Similar to ENGL 3665. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

College of Arts & Sciences | English | American Literature

ENGL-3005 (3) The Literature of New World Encounters

Explores American literature as a site of cultural intersection between European settlers and indigenous peoples. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3025 (3) American Nationalisms

Examines how literature participates in the creation of American national culture and identity. Surveys major political writing and a variety of literary genres, tropes, and themes from early native American tales to the 20th-century literature. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3235 (3) American Novel

Surveys the American novel. Covers the early development of the American novel, its rise in the 19th- and 20th-centuries, and its contemporary expressions. Students will be introduced to theories of the novel, the major movements and authors, as well as the characteristics that define the American novel as unique. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3245 (3) American Poetry

Surveys American poetry from the 17th- to the 21st-century. Includes training in poetry theory, form, and genre, as well as in poetic analysis. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3675 (3) Majors Authors in American Literature

Provides an in-depth study of the work of one or two major American authors. Explores the range, influences, and development of a writer over his or her life. May be repeatable for a total of 9 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-4235 (3) American Novel 1

From the beginnings to 1900. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-4245 (3) American Novel 2

From 1900 to the present. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-4655 (3) Studies in American Literature to 1900

Extensive study of particular periods and movements in American literature. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English American Literature

ENGL-4665 (3) Studies in American Literature after 1900

Extensive study of particular periods and movements in American literature. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English American Literature

ENGL-4685 (3) Special Topics in American Literature

Explores a special topic in American literature. May be repeated for a total of 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English American Literature

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ENGL-2051 (3) Introductory Fiction Workshop

Introductory course in fiction writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

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ENGL-2058 (3) Twentieth- and Twentyfirst-Century Literature

Surveys the major literary trends in prose and poetry from 1900 to the present in the Anglo-American tradition of modern, postmodern, and contemporary literature. Provides students with a grounding in the major authors and motifs of 20th- and 21st-century in literature connection with political and cultural changes across the periods.

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ENGL-2102 (3) Literary Analysis

Provides a basic skills course designed to equip students to handle the English major. Emphasizes critical writing and the acquisition of basic techniques and vocabulary of literary criticism through close attention to poetic and prose language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors only. Credit not granted for this course and ENGL 1010. Formerly ENGL 2000. Prerequisites: Restricted to English majors only.

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ENGL-2112 (3) Introduction to Literary Theory

Introduces students to a wide range of critical theories that English majors need to know. Covers major movements in modern literary/critical theory, from Matthew Arnold through new criticism to contemporary postmodern frameworks. Required for all English majors. Restricted to English majors only. Formerly ENGL 2010. Prerequisites: Restricted to English majors only.

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ENGL-2115 (3) American Frontiers

Considers the backdrop of the American West in literature, film, photography, and gaming. We will focus on a range of narratives and images depicting this wide swathe of American geography while simultaneously cultivating close reading skills, digital media analysis and film analysis that will aid you in deeper insights at the textual level. Approved for arts and sciences core curriculum: U.S. context.

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ENGL-2222 (3) Foundations of British and American Literature

Studies major texts of medieval and Renaissance writers who fundamentally influenced the course of English writing. Ordinarily deals with Chaucer, Shakespeare, and Milton, though other classical, medieval, and Renaissance authors may be substituted.

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ENGL-2222 (3) Foundations of British and American Literature

Studies major texts of medieval and Renaissance writers who fundamentally influenced the course of English writing. Ordinarily deals with Chaucer, Shakespeare, and Milton, though other classical, medieval, and Renaissance authors may be substituted.

[College of Arts & Sciences](#) | [English](#) | [Backgrounds to Literature Engl](#)

ENGL-3302 (3) Backgrounds of English and American Literature

Studies literary, philosophic, and religious traditions of the Greco-Roman and Judeo-Christian worlds, with close analysis of major texts in translation. Compares ancient and modern texts where feasible. Prerequisites: Restricted to sophomore, junior, or senior English or Humanities Majors only.

[College of Arts & Sciences](#) | [English](#) | [Backgrounds to Literature Engl](#)

ENGL-3310 (3) The Bible as Literature

Surveys literary achievements of the Judeo-Christian tradition as represented by the Bible. Same as JWST 3312. Formerly ENGL 3312. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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ENGL-2503 (3) British Literary History to 1660

Provides a chronological study of great figures and forces in English literature from Beowulf to 1660. Formerly ENGL 2502.

College of Arts & Sciences | English | British Literature to 1660

ENGL-3523 (3) The Renaissance in England, 1500-1600

Selected prose and non-dramatic poetry from Skelton and More through Shakespeare and his contemporaries. Formerly ENGL 4523. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-3533 (3) The Renaissance in England, 1600-1700

Selected prose and poetry by Donne, Jonson, Bacon, and their successors. Formerly ENGL 4533. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-3553 (3) Geoffrey Chaucer

Selection of Chaucer's works, including The Canterbury Tales and other shorter poems. Includes an introduction to Middle English. Restricted to students with 27-180 credits (Sophomore, Junior

or Senior) only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-3563 (3) Shakespeare

Shakespeare's poetry and drama. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL), Humanities (HUMN), Theatre (THTR or TBFA) majors only.

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-3573 (3) Shakespeare in Performance

Focuses on Shakespeare the dramatist through the study of the three Shakespeare plays produced in the summer by the Colorado Shakespeare Festival. In addition to exploring the text, the historical context and performance conventions c. 1600, students meet the CSF teams (professional directors, dramaturgs, designers and actors) of the three plays and the Producing Artistic Director of the CSF. May be repeated up to 9 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-3583 (3) Milton

Milton's poetry and selected prose. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL) or Humanities (HUMN) majors only.

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-3593 (3) Major Authors in British Literature before 1660

Focuses on one major author of the medieval or early modern period, such as William Langland, John Lydgate, Edmund Spenser or Ben Jonson. Course content varies with instructor and may include literary influences, contemporary writers, and historical influences as necessary to understanding the writer. May be repeated for a total of 9 units for different topics. Recommended prereqs., ENGL 2503 and 3533 or 3563. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-4113 (3) History and Culture of Medieval England

Explores the major historical, literary, and cultural developments in England from the Anglo-Saxon period through the 15th century. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-4503 (3) Continental Medieval Literature

Intensive study of the major literary works of the Middle Ages in Europe. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-4513 (3) British Medieval Literature

Intensive study of the major literary works of the Middle Ages in Britain. Restricted to students with 57-180 credits (Junior or Senior). May be repeated up to 9 total credit hours provided the topics vary. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-4583 (3) Elizabeth I and Her Times

Interdisciplinary course explores different aspects of the reign of Elizabeth I: social and political history; literature; theater; and music. Explores the role and impact of a female ruler on English culture. Same as HIST 4134 and THTR 4091. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-4693 (3) Advanced Topics in British Literature to 1660

Explores a special topic in medieval or early modern literature. May be repeated for a total of 9 units for different topics. Recommended prereqs., ENGL 2503 and 3533 or 3563. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

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ENGL-2504 (3) British Literary History after 1660

Provides a chronological study of great figures and forces in English literature from 1660 to the present. Formerly ENGL 2512.

[College of Arts & Sciences](#)
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[British Literature after 1660](#)

ENGL-3164 (3) History and Literature of Georgian Britain

Provides an interdisciplinary study of England in one of its most vibrant cultural and historical periods. Topics include politics, religion, family life, and the ways contemporary authors understood their world. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[English](#)
[British Literature after 1660](#)

ENGL-3204 (3) Developments in the Novel

Covers the development of the novel. Formerly ENGL 4204. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#)
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ENGL-3564 (3) Romanticism

Surveys British Romanticism, including Blake, Coleridge, Wordsworth, Keats, Shelley, and Byron. Formerly ENGL 4564. Prerequisites: Restricted to students with 57-180 credits (Junior or

Senior English (ENGL) or Humanities (HUMN) majors only.

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| College of Arts & Sciences | English | British Literature after 1660 |
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ENGL-3604 (3) The Victorian Era

Surveys main currents of Victorian thought in prose and poetry. Formerly ENGL 4604. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

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ENGL-4224 (3) Modern British and Irish Novel

Studies major figures and trends in the 20th century. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature after 1660 |
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ENGL-4514 (3) Advanced Topics: The Restoration and the Eighteenth Century

Covers advanced topics in the Restoration and Eighteenth-century. May be repeated up to 6 total credit hours. Formerly ENGL 4554. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ENGL-4524 (3) Advanced Topics: Romanticism

Covers advanced topics in British Romanticism. Formerly ENGL 4574. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

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ENGL-4544 (3) The Age of Satire: 1660--1740

Dryden, Defoe, Swift, Pope, Addison, Steele, and their contemporaries. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

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| College of Arts & Sciences | English | British Literature after 1660 |
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ENGL-4624 (3) Transnational/Historic/Interdiscipline Approaches 1660-1900

Explores a special topic in British literature written between 1660-1900 that crosses traditional divisions of nationality, history, and discipline. Repeatable up to 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature after 1660 |
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ENGL-4634 (3) Advanced Topics: The Victorian Era

Covers advanced topics in Victorian literature. Formerly ENGL 4614. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

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ENGL-2503 (3) British Literary History to 1660

Provides a chronological study of great figures and forces in English literature from Beowulf to 1660. Formerly ENGL 2502.

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ENGL-2504 (3) British Literary History after 1660

Provides a chronological study of great figures and forces in English literature from 1660 to the present. Formerly ENGL 2512.

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ENGL-2620 (3) Introduction to Western European Literature 1

Close study of literary classics of Western civilization: the Odyssey or Iliad, Greek drama, and several books of the Bible. Formerly ENGL 2602.

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ENGL-2630 (3) Introduction to Western European Literature 2

Close study of literary classics of Western civilization: major Roman and medieval texts. Formerly ENGL 2612.

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ENGL-2655 (3) Introduction to American Literature I

Chronological survey of the literature from Bradford to Whitman. Restricted to English, humanities, and film studies majors only. Credit not granted for this course and ENGL 3654. Similar to ENGL 3655. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

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ENGL-2665 (3) Introduction to American Literature 2

Chronological survey of the literature from Whitman to Faulkner. Continuation of ENGL 3655. Credit not granted for this course and ENGL 3664. Similar to ENGL 3665. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

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ENGL-2707 (3) Introduction to Lesbian, Bisexual, and Gay Literature

Offers students at sophomore and junior levels an introduction to some of the forms, concerns, and genres of contemporary lesbian, bisexual, and gay writing in English. Prereq., sophomore standing. Same as LGBT 2707.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-2717 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ETHN 2713.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-2727 (3) African American Literature

Surveys African American literature from the 17th century, through the Harlem Renaissance and Depression, to the present. Same as ETHN 2722.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-2737 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ETHN 2732.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-2747 (3) Chicana/Chicano and Mexican Literature

Introduces Chicana and Chicano and Mexican literary studies, focusing on narrative works by Chicana and Chicano writers. Examines diverse range of Mexican writing in Greater Mexico as it addresses recurring issues and themes, including language, race and class, questions of identity, and gender relations. Same as ETHN 2746.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-2767 (3) Survey of Post-Colonial Literature

Surveys the development of literatures in English in former British colonies. Topics include the spread and adaptation of English language literary forms in Asia, Africa, the Caribbean, and the far new world (Australia and New Zealand). Students learn the causes of the dispersion and the motivations for the clearly different uses of English literary forms in the ex-colonies. Same as ETHN 2761.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-3217 (3) Topics in Gender Studies

Studies special topics in gender studies; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-3267 (3) Women Writers

Introduces literature by British and American women. Same as WMST 3267. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-3377 (3) Multicultural Literature

Studies special topics in multicultural literature; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-3677 (3) Jewish-American Literature

Explores the Jewish-American experience from the 19th century to the present through writers such as Sholom Aleichem, Peretz, babel, Singer, Malamud, Miller, Ginsberg, and Ozick. The Jewish experience ranges from the travails of immigration to the loss of identity through assimilation. Same as JWST 3677. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-4277 (3) Topics in Women's Literature

Focuses on areas of research interest in the study of women's literature, such as selected themes or critical issues. Students are expected to contribute original research to the topic under consideration. Same as WMST 4277. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-4287 (3) Studies in Lesbian, Gay, Bisexual, and Transgender Literature

Examines selected British, American, and French literary representations of lesbian and gay identity from the early 16th century to the present. Discusses the changing status of homosexuality as a literary and cultural topos, including how same-sex desire is defined, and the rhetorical and ideological difficulties involved in its representation. Specific topics vary each semester. May be repeated up to 9 total credit hours. Same as LGBT/WMST 4287. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-4697 (3) Contemporary African American Literature 1

Advanced in-depth study of the works of prominent African American novelists and poets. Restricted to juniors/seniors. Same as ETHN 4692. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

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ENGL-2707 (3) Introduction to Lesbian, Bisexual, and Gay Literature

Offers students at sophomore and junior levels an introduction to some of the forms, concerns, and genres of contemporary lesbian, bisexual, and gay writing in English. Prereq., sophomore standing. Same as LGBT 2707.

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ENGL-2717 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ETHN 2713.

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ENGL-2727 (3) African American Literature

Surveys African American literature from the 17th century, through the Harlem Renaissance and Depression, to the present. Same as ETHN 2722.

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ENGL-2737 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ETHN 2732.

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ENGL-2747 (3) Chicana/Chicano and Mexican Literature

Introduces Chicana and Chicano and Mexican literary studies, focusing on narrative works by Chicana and Chicano writers. Examines diverse range of Mexican writing in Greater Mexico as it addresses recurring issues and themes, including language, race and class, questions of identity, and gender relations. Same as ETHN 2746.

[College of Arts & Sciences](#) [English](#) [Multicultural & Gender Studies](#)

ENGL-2767 (3) Survey of Post-Colonial Literature

Surveys the development of literatures in English in former British colonies. Topics include the spread and adaptation of English language literary forms in Asia, Africa, the Caribbean, and the far new world (Australia and New Zealand). Students learn the causes of the dispersion and the motivations for the clearly different uses of English literary forms in the ex-colonies. Same as ETHN 2761.

[College of Arts & Sciences](#) [English](#) [Multicultural & Gender Studies](#)

ENGL-3000 (3) Shakespeare for Nonmajors

Introduces students to Shakespeare's major works: the histories, comedies, and tragedies. May include the nondramatic poetry as well. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-3005 (3) The Literature of New World Encounters

Explores American literature as a site of cultural intersection between European settlers and indigenous peoples. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3008 (3) Developments in the Novel, Post-1900

Introduces students to the major works, authors, and formal trends of the 20th and 21st-century novel. Texts may be drawn from British, American, and global literary traditions. The course may also focus on a specific movement, development, or transformation in the genre post-1900, for instance, modernism, postmodernism, naturalism, realism, postcolonial fiction, historical fiction, and so forth. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-3010 (3) History of the English Language

Introduces students to the historical stages of English from Anglo-Saxon, c. 500, to Modern English. Considers both language change and the role of language in historical and political phenomena such as globalization (including the spread of English and the emergence of different dialects) and past and present debates about standard language, canon formation, and culture.

College of Arts & Sciences | English | General Literature & Language

ENGL-3011 (3) Literary Forms and Styles in Post-1900 Literature

Studies special topics in literary forms and styles (e.g. magical realism, naturalism, language poetry, etc.) and also the development of genres (e.g. poetry, drama, digital media, novel) in the 20th- and 21st-centuries. Topics vary each semester. Specially design for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3021 (3) Intermediate Poetry Workshop

Intermediate course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2021 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3025 (3) American Nationalisms

Examines how literature participates in the creation of American national culture and identity. Surveys major political writing and a variety of literary genres, tropes, and themes from early native American tales to the 20th-century literature. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3041 (3) Studies in Fiction and Poetry

Examines literary forms and themes with special emphasis on issues related to the craft of poetry and fiction. This course is taught in conjunction with visiting lectures by practicing writers. Does not count as Creative Writing workshop credit. Prereq., ENGL 1191 (min grade B-). Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3051 (3) Intermediate Fiction Workshop

Intermediate course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2051 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3060 (3) Modern and Contemporary Literature for Nonmajors

Close study of significant 20th century poetry, drama, and prose works. Readings range from 1920s to the present. Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | General Literature & Language

ENGL-3068 (3) Literature in English, 1900-1945

Surveys major literary trends from 1900-1945 in the Anglo-American tradition, including the characteristics of literary modernism. Covers both prose and poetry, as well as the relationship between literature and history to the close of World War II. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-3078 (3) Literature in English, 1945-Present

Explores major literary and theoretical trends in the Anglo-American tradition after 1945. Recommended prereqs., ENGL 2000 and 2058. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-3081 (3) Intermediate Nonfiction Workshop

Discussion and practical criticism of student work and discussion of relevant works of literary nonfiction. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to English, Humanities, Theatre (THTR or TBFA) majors only or Creative Writing minor students only.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-3088 (3) Major Authors of Post-1900 Literature

Provides an in-depth study of the work of one or two major authors in the Anglo-American tradition after 1900. May be repeated for a total of 9 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-3116 (3) Topics in Advanced Theory

Studies special topics in theory; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3164 (3) History and Literature of Georgian Britian

Provides an interdisciplinary study of England in one of its most vibrant cultural and historical periods. Topics include politics, religion, family life, and the ways contemporary authors understood their world. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | British Literature after 1660

ENGL-3204 (3) Developments in the Novel

Covers the development of the novel. Formerly ENGL 4204. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature after 1660

ENGL-3217 (3) Topics in Gender Studies

Studies special topics in gender studies; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-3226 (3) Folklore

Emphasizes formal study of folk traditions (including tales, songs, games, customs, beliefs, and crafts) within a theoretical framework, using examples from several cultures. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3235 (3) American Novel

Surveys the American novel. Covers the early development of the American novel, its rise in the 19th- and 20th-centuries, and its contemporary expressions. Students will be introduced to theories of the novel, the major movements and authors, as well as the characteristics that define the American novel as unique. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3245 (3) American Poetry

Surveys American poetry from the 17th- to the 21st-century. Includes training in poetry theory, form, and genre, as well as in poetic analysis. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3246 (3) Topics in Popular Culture

Studies special topics in popular culture; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to sophomore, junior, or senior English or Humanities Majors only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3267 (3) Women Writers

Introduces literature by British and American women. Same as WMST 3267. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

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ENGL-3302 (3) Backgrounds of English and American Literature

Studies literary, philosophic, and religious traditions of the Greco-Roman and Judeo-Christian worlds, with close analysis of major texts in translation. Compares ancient and modern texts where feasible. Prerequisites: Restricted to sophomore, junior, or senior English or Humanities Majors only.

[College of Arts & Sciences](#)
[English](#)
[Backgrounds to Literature Engl](#)

ENGL-3310 (3) The Bible as Literature

Surveys literary achievements of the Judeo-Christian tradition as represented by the Bible. Same as JWST 3312. Formerly ENGL 3312. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[English](#)
[Backgrounds to Literature Engl](#)

ENGL-3377 (3) Multicultural Literature

Studies special topics in multicultural literature; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
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ENGL-3523 (3) The Renaissance in England, 1500-1600

Selected prose and non-dramatic poetry from Skelton and More through Shakespeare and his contemporaries. Formerly ENGL 4523. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-3533 (3) The Renaissance in England, 1600-1700

Selected prose and poetry by Donne, Jonson, Bacon, and their successors. Formerly ENGL 4533. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-3553 (3) Geoffrey Chaucer

Selection of Chaucer's works, including *The Canterbury Tales* and other shorter poems. Includes an introduction to Middle English. Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English British Literature to 1660

ENGL-3563 (3) Shakespeare

Shakespeare's poetry and drama. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL), Humanities (HUMN), Theatre (THTR or TBFA) majors only.

College of Arts & Sciences English British Literature to 1660

ENGL-3564 (3) Romanticism

Surveys British Romanticism, including Blake, Coleridge, Wordsworth, Keats, Shelley, and Byron. Formerly ENGL 4564. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature after 1660

ENGL-3573 (3) Shakespeare in Performance

Focuses on Shakespeare the dramatist through the study of the three Shakespeare plays produced in the summer by the Colorado Shakespeare Festival. In addition to exploring the text, the historical context and performance conventions c. 1600, students meet the CSF teams (professional directors, dramaturgs, designers and actors) of the three plays and the Producing Artistic Director of the CSF. May be repeated up to 9 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English British Literature to 1660

ENGL-3583 (3) Milton

Milton's poetry and selected prose. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature to 1660

ENGL-3593 (3) Major Authors in British Literature before 1660

Focuses on one major author of the medieval or early modern period, such as William Langland, John Lydgate, Edmund Spenser or Ben Jonson. Course content varies with instructor and may include literary influences, contemporary writers, and historical influences as necessary to understanding the writer. May be repeated for a total of 9 units for different topics. Recommended prereqs., ENGL 2503 and 3533 or 3563. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-3604 (3) The Victorian Era

Surveys main currents of Victorian thought in prose and poetry. Formerly ENGL 4604. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences | English | British Literature after 1660

ENGL-3675 (3) Majors Authors in American Literature

Provides an in-depth study of the work of one or two major American authors. Explores the range, influences, and development of a writer over his or her life. May be repeatable for a total of 9 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-3677 (3) Jewish-American Literature

Explores the Jewish-American experience from the 19th century to the present through writers such as Sholom Aleichem, Peretz, babel, Singer, Malamud, Miller, Ginsberg, and Ozick. The Jewish experience ranges from the travails of immigration to the loss of identity through assimilation. Same as JWST 3677. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-3796 (3) Queer Theory

Surveys theoretical, critical, and historical writings in the context of lesbian, bisexual, and gay literature. Examines relationships among aesthetic, cultural, and political agendas, and literary and visual texts of the 20th century. Same as LGBT 3796. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | English | Advanced Thy, Genre, Pop Cult

ENGL-3856 (3) Topics in Genre Studies

Studies special topics in genre studies; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN), Film (FILM or FMST) or Theatre (THTR or TBFA) majors only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-3930 (1-6) Internship

Provides academically supervised opportunity for upper-division students to work in public or private organizations on projects related to students' career goals and to relate classroom theory to practice. May be repeated up to 6 total credit hours. Restricted to students with 57-180 credits (Junior or Senior) and instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | General Literature & Language

ENGL-3940 (1-3) Service Learning Practicum

Under faculty supervision, students participate in a service project correlated with the academic subject. May be repeated up to 6 total credit hours.

College of Arts & Sciences | English | General Literature & Language

ENGL-4011 (3) Global and Transnational Approaches to Post-1900 Literature

Studies special topics that focus on transnational and global issues in the 20th- and 21st-century literature. For instance, the emergence of globalization, the impact of cross-cultural exchanges, the increase of migration, or the legacies of imperialism. Topics vary each semester. Specially designed for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4021 (3) Advanced Poetry Workshop

Advanced course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1119, ENGL 2021 and ENGL 3021 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences | English | Undergraduate Writing

ENGL-4026 (3) Special Topics in Genre, Media, and Advanced Writing

Studies theoretical and historical approaches to genre, media, and writing at the advanced level. May be repeatable for a total of 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-4039 (3) Critical Thinking in English Studies

Concerned with developments in the study of literature that have significantly influenced our conception of the theoretical bases for study and expanded our understanding of appropriate subject matter. May not be repeated. Formerly ENGL 4038. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English Critical Studies in English

ENGL-4051 (3) Advanced Fiction Workshop

Advanced course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191, ENGL 2051, and ENGL 3051 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing

ENGL-4071 (3) Scriptwriting Workshop

Designed to give students practical criticism of their script writing and technical format requirements. Either stage plays or screenplays are studied, as announced. May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Same as FILM 4075. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences English Undergraduate Writing

ENGL-4081 (3) Playwriting

May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing

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ENGL-4098 (3) Special Topics in Post-1900 Literature in English

Explores a special topic in literature written in, or translated into English, post-1900. May be repeated up to a total of 6 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Critical Studies in English

ENGL-4113 (3) History and Culture of Medieval England

Explores the major historical, literary, and cultural developments in England from the Anglo-Saxon period through the 15th century. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-4116 (3) Advanced Topics in Media Studies

Studies specialized topics in the history, theory, and practice of media, such as the history of the book, the theory of digital media, and the theory and practice of multimedia forms. Specially designed for English majors. Topics vary year to year. May be repeated up to 6 total credit hours. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-4224 (3) Modern British and Irish Novel

Studies major figures and trends in the 20th century. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature after 1660

ENGL-4235 (3) American Novel 1

From the beginnings to 1900. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-4245 (3) American Novel 2

From 1900 to the present. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-4250 (3) Modern and Contemporary Novel

Close study of masterpieces by such novelists as Proust, Joyce, Woolf, Lawrence, Mann, Kafka, and Faulkner. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | General Literature & Language

ENGL-4277 (3) Topics in Women's Literature

Focuses on areas of research interest in the study of women's literature, such as selected themes or critical issues. Students are expected to contribute original research to the topic under consideration. Same as WMST 4277. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies

ENGL-4286 (3) Folklore 2

Upper-division studies of folk groups, events, texts, and contexts as they reflect traditional knowledge---folk perceptions and teachings about the structure and purpose of the universe. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Advanced Thry, Genre, Pop Cult

ENGL-4287 (3) Studies in Lesbian, Gay, Bisexual, and Transgender Literature

Examines selected British, American, and French literary representations of lesbian and gay identity from the early 16th century to the present. Discusses the changing status of homosexuality as a literary and cultural topos, including how same-sex desire is defined, and the rhetorical and ideological difficulties involved in its representation. Specific topics vary each semester. May be repeated up to 9 total credit hours. Same as LGBT/WMST 4287. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | Multicultural & Gender Studies |
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ENGL-4360 (3) Modern Drama.

Explores continental, British, and American drama since Ibsen. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | General Literature & Language |
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ENGL-4460 (3) Modern Poetry

Selects works of British and American poets from 1900 to the present. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | General Literature & Language |
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ENGL-4503 (3) Continental Medieval Literature

Intensive study of the major literary works of the Middle Ages in Europe. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature to 1660 |
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ENGL-4513 (3) British Medieval Literature

Intensive study of the major literary works of the Middle Ages in Britain. Restricted to students with 57-180 credits (Junior or Senior). May be repeated up to 9 total credit hours provided the topics vary. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ENGL-4514 (3) Advanced Topics: The Restoration and the Eighteenth Century

Covers advanced topics in the Restoration and Eighteenth-century. May be repeated up to 6 total credit hours. Formerly ENGL 4554. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | English | British Literature after 1660 |
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ENGL-4524 (3) Advanced Topics: Romanticism

Covers advanced topics in British Romanticism. Formerly ENGL 4574. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

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ENGL-4544 (3) The Age of Satire: 1660--1740

Dryden, Defoe, Swift, Pope, Addison, Steele, and their contemporaries. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences | English | British Literature after 1660

ENGL-4583 (3) Elizabeth I and Her Times

Interdisciplinary course explores different aspects of the reign of Elizabeth I: social and political history; literature; theater; and music. Explores the role and impact of a female ruler on English culture. Same as HIST 4134 and THTR 4091. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-4624 (3) Transnational/Historic/Interdiscipline Approaches 1660-1900

Explores a special topic in British literature written between 1660-1900 that crosses traditional divisions of nationality, history, and discipline. Repeatable up to 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature after 1660

ENGL-4634 (3) Advanced Topics: The Victorian Era

Covers advanced topics in Victorian literature. Formerly ENGL 4614. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences | English | British Literature after 1660

ENGL-4655 (3) Studies in American Literature to 1900

Extensive study of particular periods and movements in American literature. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences | English | American Literature

ENGL-4665 (3) Studies in American Literature after 1900

Extensive study of particular periods and movements in American literature. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences | English | American Literature

ENGL-4685 (3) Special Topics in American Literature

Explores a special topic in American literature. May be repeated for a total of 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | American Literature

ENGL-4693 (3) Advanced Topics in British Literature to 1660

Explores a special topic in medieval or early modern literature. May be repeated for a total of 9 units for different topics. Recommended prereqs., ENGL 2503 and 3533 or 3563. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | British Literature to 1660

ENGL-4697 (3) Contemporary African American Literature 1

Advanced in-depth study of the works of prominent African American novelists and poets. Restricted to juniors/seniors. Same as ETHN 4692. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | Multicultural & Gender Studies



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ENGL-4820 (3) Honors Seminar

Prepares prospective honors students to write honors theses. Focuses on sharpening the skills needed to write a successful thesis, including research techniques and the ability to evaluate and respond to secondary materials. May not be repeated. Prereq., instructor consent. Restricted to junior and senior English majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | English | General Literature & Language

ENGL-4830 (3) Honors Thesis

Students accepted to English Departmental Honors are enrolled in this course.

College of Arts & Sciences | English | General Literature & Language

ENGL-4840 (1-3) Independent Study---Upper Division

Creative writing. May be repeated up to 8 total credit hours.

College of Arts & Sciences | English | General Literature & Language

ENGL-4850 (1-3) Independent Study---Upper Division

Literature/language. May be repeated up to 8 total credit hours.

College of Arts & Sciences | English | General Literature & Language

ENGL-5019 (3) Survey of Contemporary Literary and Cultural Theory

Introduces a variety of critical and theoretical practices informing contemporary literary and cultural studies. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English (ENGL) MA-Lit graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5029 (3) British Literature and Culture Before 1800

Introduces graduate level study of medieval and early modern writing through the long eighteenth century. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5059 (3) British Literature and Culture After 1800

Introduces graduate level study of Romantic, Victorian, Modern, and Postmodern writing. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Same as ENGL 5079. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5079 (3) British Literature and Culture After 1800.

Same as ENGL 5059.

College of Arts & Sciences | English | Graduate Courses

ENGL-5109 (3) Literature and Culture of the United States

Introduces graduate level study of writing of the United States from its inception to the present. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5139 (3) Global Literature and Culture

Introduces graduate level study of recent writing in English from around the world. Emphasizes a wide range of genres, forms, new media, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5169 (3) Multicultural/Postcolonial Studies.

Introduces graduate level study of ethnic American and/or postcolonial writing in English, including relevant theoretical discourse. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5199 (3) Studies in Special Topics

See ENGL 5109 for description.

College of Arts & Sciences | English | Graduate Courses

ENGL-5229 (3) Poetry Workshop

Designed to give students time and impetus to generate poetry and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5239 (3) Fiction Workshop

Designed to give students time and impetus to generate fiction and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5259 (3) Nonfiction Workshop

Designed to give students time and impetus to generate nonfiction and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5269 (3) Publishing Workshop

Provides practical experience in the editorial, design, and business procedures of desktop publishing. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5279 (3) Studies in Poetry

Addresses modern poetry, written since World War II. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5299 (3) Studies in Fiction

Addresses modern fiction written since World War II. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5309 (3) Playwriting

Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5319 (3) Studies in Literary Movements

Studies styles, trends, innovations, and major writers in significant literary movements, particularly those after 1900, such as modernism and objectivism. May be repeated up to 9 total credit hours. Restricted to graduate CRWR, ENLT, and ENGL majors. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5459 (3) Introduction to the Profession

Introduces purposes, methods and techniques of professional scholarship in English. Provides an overview of the discipline, including traditional areas of research and recent developments.

Teaches students how to use research, bibliographic, and reference tools to prepare papers for conferences and publication. Required of all MA students in English. Prereq., graduate standing or instructor consent. Formerly ENGL 7859. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5529 (3) Studies in Special Topics

Studies special topics that focus on a theme, genre, or theoretical issue not limited to a specific period or national tradition. Topics vary each semester. May be repeated up to 9 total credit hours.

Same as ENGL 5549 and 5559. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5549 (3) Studies in Special Topics

Same as ENGL 5529 and 5549. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5559 (3) Studies in Special Topics

Same as ENGL 5529 and 5549. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5849 (1-6) Independent Study (Graduate Level 1)

Independent investigation of topics of specific interest to individual students. Students wishing to enroll in independent study must petition the Associate Chair for Graduate Studies prior to the beginning of the semester. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences English Graduate Courses

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ENGL-6949 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

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[Graduate Courses](#)

ENGL-6959 (1-9) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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ENGL-7019 (3) Advanced British Literature and Culture Before 1800

Studies special topics in medieval and early modern writing through the long 18th Century. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL. 5019. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

[College of Arts & Sciences](#)
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ENGL-7059 (3) Advanced British Literature and Culture After 1800

Studies special topics in romantic, Victorian, modern and postmodern writing. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5059. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7119 (3) Advanced Literature and Culture of the United States

Studies special topics in writing of the United States. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5109. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7149 (3) Advanced Global Literature and Culture

Studies special topics in recent writing in English from around the world. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5149. Prerequisites: Restricted to English Lit- Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7179 (3) Advanced Multicultural/Postcolonial Studies

Studies special topics in ethnic American and/or postcolonial writing in English, including relevant theoretical discourses. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5169. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7489 (3) Advanced Special Topics

Studies special topics in theory, culture, and literature of any period. Topics will vary. May be repeated up to 9 total credit hours. Prereq., ENGL 5019; Ph.D. exempted. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7849 (1-3) Independent Study (Graduate Level 2)

May be repeated up to 7 total credit hours.

College of Arts & Sciences English Graduate Courses

ENGL-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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ENGL-3011 (3) Literary Forms and Styles in Post-1900 Literature

Studies special topics in literary forms and styles (e.g. magical realism, naturalism, language poetry, etc.) and also the development of genres (e.g. poetry, drama, digital media, novel) in the 20th- and 21st-centuries. Topics vary each semester. Specially design for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

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ENGL-3021 (3) Intermediate Poetry Workshop

Intermediate course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2021 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

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ENGL-3041 (3) Studies in Fiction and Poetry

Examines literary forms and themes with special emphasis on issues related to the craft of poetry and fiction. This course is taught in conjunction with visiting lectures by practicing writers. Does not count as Creative Writing workshop credit. Prereq., ENGL 1191 (min grade B-). Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

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ENGL-3051 (3) Intermediate Fiction Workshop

Intermediate course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2051 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

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ENGL-3081 (3) Intermediate Nonfiction Workshop

Discussion and practical criticism of student work and discussion of relevant works of literary nonfiction. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to English, Humanities, Theatre (THTR or TBFA) majors only or Creative Writing minor students only.

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ENGL-4011 (3) Global and Transnational Approaches to Post-1900 Literature

Studies special topics that focus on transnational and global issues in the 20th- and 21st-century literature. For instance, the emergence of globalization, the impact of cross-cultural exchanges, the increase of migration, or the legacies of imperialism. Topics vary each semester. Specially designed for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ENGL-4021 (3) Advanced Poetry Workshop

Advanced course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1119, ENGL 2021 and ENGL 3021 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

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ENGL-4051 (3) Advanced Fiction Workshop

Advanced course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191, ENGL 2051, and ENGL 3051 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

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ENGL-4071 (3) Scriptwriting Workshop

Designed to give students practical criticism of their script writing and technical format requirements. Either stage plays or screenplays are studied, as announced. May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Same as FILM 4075. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

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ENGL-4081 (3) Playwriting

May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to students with a sub plan of Creative Writing.

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GEOG-1982 (3) World Regional Geography

Involves an intellectual journey around the globe, stopping at major regions to study the people, their environments, and how they interact. Topics include the political/economic tensions in changing Europe, conflicts in Brazilian rain forests, transitions facing African peoples, and rapid changes in China. Meets MAPS requirement for social science: geography.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

GEOG-1992 (3) Human Geographies

Examines social, political, economic, and cultural processes creating the geographical worlds in which we live, and how these spatial relationships shape our everyday lives. Studies urban growth, geopolitics, agricultural development and change, economic growth and decline, population dynamics, and migration exploring both how these processes work at global scale as well as shape geographies of particular places. Meets MAPS requirement for social science: geography.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

GEOG-2002 (3) Geographies of Global Change

Familiarizes students with spatial and ecological perspectives on economic, political, social, cultural, and environmental changes. Examines roles of transnational corporations, global media, world cities, food security, labor, migration, human rights, ethnicity, nationalism, resources, environmental degradation, and sustainable development in global change. Meets MAPS requirement for social science: geography.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

GEOG-2412 (3) Environment and Culture

Examines nature-culture interactions and the effects of development and resource use on environmental quality, as well as practical efforts to manage and protect the environment. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3402 (3) Natural Hazards

Explores the impacts of extreme geophysical events on human society. Emphasizes adaptations to extreme events and ways of reducing vulnerability and damage.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3412 (3) Conservation Practice and Resource Management

Studies inventory, policy, and management of natural resources. Emphasizes practical approaches to the conservation and management of soil, land, water, and air resources. Restricted to geography and environmental studies majors.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3422 (3) Conservation Thought

Lect. and rec. Provides an historical survey of human consumption of earthly materials; environmental and global considerations of population growth, cultural attitude, and technological development; and diverse goals and philosophy of conservation movements in time and place.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3612 (3) Geography of American Cities

Introduces geography of American cities. Includes demographic and ideological contexts of urban development, emergence of the city system, location theory and rent models, and urban-economic problems.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3662 (3) Economic Geography

Presents several theories of location of economic activity: general theory of land use, agricultural location theory, plant location theory, central place theory, location of systems of cities, and

geographical organization of industries. Studies aggregate geographical structure of regions as the geography of three major markets: labor, product, and capital, including the banking system. Explores the economic growth of regions and policies designed to influence regional growth and welfare.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3672 (3) Gender and the Global Economy

Examines the role of gender in global economy. Explores the impacts of colonialism and modern global economy on gender relations, with particular emphasis on third world societies. Also focuses on related issues of population politics, environmental crisis, women's sexual exploitation, and women's social movements worldwide. Prereqs., GEOG 1982, 1992, 2002, 2412, WMST 2000 or 2050. Same as WMST 3672. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3682 (3) Geography of International Development

Compares and contrasts global characteristics and processes of development, emphasizing the developing countries of the world. Integrates theories of development, specific development topics, and case studies to explore the problems of development. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3742 (3) Place, Power, and Contemporary Culture

Presents a radical reexamination of the geography of culture. Examines the relationship between places, power, and the dynamics of culture. Explores how the globalization of economics, politics, and culture shapes local cultural change. Looks at how place-based cultural politics both assist and resist processes of globalization. Recommended prereq., GEOG 1982, 1992, or 2002. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3812 (3) Mexico, Central America, and the Caribbean

Introduces the geography of Latin America, focusing on the lands and peoples of Mexico, Central America, and the Caribbean. Examines regional and national culture, history, environment, and population, as well as ongoing environmental and socioeconomic changes. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3822 (3) Geography of China

Surveys the world's most populous country, examining physical and historical geography, urbanization and regional development, agriculture, population, energy, and the environment. Seeks to situate China's development in a broader Asian and global context. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Approved for arts and sciences core curriculum: human diversity.

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| College of Arts & Sciences | Geography | Human and Cultural Geography |
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GEOG-3862 (3) Geography of Africa

Studies physical and cultural regions of Africa. Analyzes and compares natural and cultural regions and the development of present nation-states. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

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| College of Arts & Sciences | Geography | Human and Cultural Geography |
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GEOG-4292 (3) Migration, Immigrant Adaptation, and Development

Examines historical and current patterns of migration with an emphasis in international movement. Looks at leading migration theories related to both origin- and destination-based explanations while critically looking at the role of development as a potential cause and consequence of population movement. Finally, covers some aspects of immigrants' social and economic adaptation to their host society. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412. Same as GEOG 5292 and ECON 4292.

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| College of Arts & Sciences | Geography | Human and Cultural Geography |
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GEOG-4622 (3) City Life

Analyzes social, behavioral, political, and demographic factors that influence development and maintenance of communities in contemporary urban environments, with primary emphasis on U.S. cities. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412. Same as GEOG 5622.

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GEOG-4632 (3) Development Geography

Provides an overview of development policy and practice, surveying foundational works in Development Studies as well as critical interventions. Required for Graduate Certificate in Development Studies. Prereqs. for GEOG 4632 are GEOG 1982, 1992, 2002 or 2412. Recommended prereq., GEOG 3682. GEOG 4632 and 5632 are the same course.

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| College of Arts & Sciences | Geography | Human and Cultural Geography |
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GEOG-4712 (3) Political Geography

Systematic study of relations between geography and politics, especially as background for better understanding of international affairs. Includes topics such as frontiers and boundaries, power analysis, geopolitics, international political economy, and strategic concepts. Recommended prereqs., GEOG 1982, 1992, 2002, 2412, IAFS 1000, PSCI 2012 or 2223. Restricted to GEOG, IAFS, ENVS, junior/senior majors. Same as GEOG 5712.

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| College of Arts & Sciences | Geography | Human and Cultural Geography |
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GEOG-4722 (3) Field Methods in Human Geography

Examines research methods associated with field work in human geography. Prepares students for fieldwork by focusing on geographic and interdisciplinary field work techniques; interpretation of field data; and discussion of the politics, ethics and gender, race, class, and cross-cultural issues related to field work. Prereqs., 15 credit hours in human geography. Same as GEOG 5722.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4732 (3) Population Geography

Emphasizes spatial aspects of population characteristics including fertility, mortality, migration, distribution, and composition. Includes both theoretical and empirical considerations, in addition to field work and computer simulations. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Same as GEOG 5732.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4742 (3) Environments and Peoples

Studies the interaction of people and the environment, including human adaptation and modification of environments, cultural interpretation and construction of landscapes, and natural resources and land management. May be taken twice. Topics vary. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4812 (3) Environment and Development in South America

Presents theoretical approaches to the links between environment and development in Latin America and focuses on analytical discussion of contemporary (and controversial) issues in sustainable development in South America. Examines social, ecological, economic, and political forces influencing the use of natural resources. Recommended prereqs., GEOG 1982, 1992, 2002, 3812, 3422, ANTH 3110, or PSCI 3032.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4822 (3) Environment and Development in China

Examines key environmental problems in relation to China's rapid modernization and development. Recommended prereqs., GEOG 1982, 1992, 2002 or HIST 1608.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4832 (3) Geography of Tibet

Rigorously examines contemporary Tibetan society, culture, and nature from a geographical perspective. Uses readings on contemporary Tibet as an entry point into scholarly research about

nationalism, representation, diaspora, landscape and place, sustainable development, natural resource management, identity, and environmentalism. Prereqs., GEOG 3822 or other classes on China. Same as GEOG 5832.

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GEOG-1011 (4) Environmental Systems 2---Landscapes and Water

MLect. and lab. Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

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GEOG-1982 (3) World Regional Geography

Involves an intellectual journey around the globe, stopping at major regions to study the people, their environments, and how they interact. Topics include the political/economic tensions in changing Europe, conflicts in Brazilian rain forests, transitions facing African peoples, and rapid changes in China. Meets MAPS requirement for social science: geography.

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GEOG-2053 (4) Mapping a Changing World

Overviews the vital role cartography plays in modern society and contemporary science. Includes fundamentals of reading and creating maps for research and enjoyment. Lab provides hands-on experience with computer-based methods for creating useful maps.

[College of Arts & Sciences](#)
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GEOG-3023 (4) Statistics for Geography

Introduces parametric and distribution-free statistics, emphasizing applications to earth science problems. Not open to students who have taken a college-level statistics course. Same as GEOL 3023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

[College of Arts & Sciences](#)
[Geography](#)
[Techniques \(Skills\)](#)

GEOG-3053 (4) Cartography: Visualization and Information Design

Introduction to the fundamentals of cartography--the science and art of map design. Emphasis on map projections, symbolization, and the design of maps with computers. Students produce series of thematic maps with modern computer-assisted techniques. Basic familiarity with computers strongly recommended. Introductory course in statistics recommended (may be taken concurrently). Restricted to junior or senior GEOG/ENVS majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) or Geography (GEOG) majors only.

[College of Arts & Sciences](#)
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GEOG-4023 (4) Introduction to Quantitative Methods in Human Geography

Introduces fundamental statistical and quantitative modeling techniques widely used in geography today. Emphasizes geographic examples and spatial problems, as are statistical routines now available on most computers. Prereq., GEOG 3023 or equivalent. Same as GEOG 5023. Prerequisites: Requires pre-requisite course of GEOG 3023.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4043 (4) Cartography 2: Interactive and Multimedia Mapping

An advanced course in interactive, multimedia, animated, and Web-based cartography stressing the important role digital cartography plays in cyberspace. Focuses on principles of effective cartographic design in multimedia and hypertext environments. Labs are organized around hands-on active learning projects. Prereq., GEOG 3053. Same as GEOG 5043.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4093 (4) Remote Sensing of the Environment

Covers acquisition and interpretation of environmental data by remote sensing. Discusses theory and sensors as well as manual and computerized interpretation methods. Stresses infrared and microwave portions of the spectrum. Same as GEOG 5093 and GEOL 4093.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4103 (4) Introduction to Geographic Information Science

Examines construction and use of an information system and its data specifically designed for representing and manipulating geographical data. Emphasizes modern geographical information systems including computer hardware/software with a collection of methods/procedures for recording, transforming, storing/retrieving, analyzing, and mapping geographic data. Prereq., GEOG 2053 or GEOG 3053 and introductory course in statistics. Same as GEOG 5103. Prerequisites: Requires pre-requisite courses of GEOG 2053 or 3053 and introductory course in statistics. Restricted to Junior or Senior Geography (GEOG) or Environmental Studies(ENVS) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4173 (3) Research Seminar

Examines the nature of research and develops pregraduate skills for geographic research, emphasizing problem definition, methods, sources, data interpretation, and writing. Recommended for students pursuing honors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Geography (GEOG) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4203 (4) Geographic Information Science: Modeling Applications

Extends basic GIS concepts and mechanics. Develop GIS models for human and environmental applications. Grid and vector data models, tessellated and hierarchical data structures, terrain representation, interpolation and kriging, spatial regression. Small group projects design, implement and run GIS models. Prereq., GEOG 4103/5103 or instructor consent. Recommended prereq., working knowledge of GIS software. Same as GEOG 5203.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4303 (4) GIS Programming for Spatial Analysis

Focuses on the extension of geographic information systems (GIS) through programming as well as on the development of algorithms for spatial analysis and information extraction in vector and raster data. Covers concepts, principles and techniques of programming and solving spatial problems in physical and human Geography. Prereq., GEOG 4103/5103. Recommended prereq., GEOG 4203/5203. Same as GEOG 5303.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5003 (4) Elements of Geographic Information Systems

Discusses incorporating GIS methods into graduate thesis or dissertation research. Reviews basic mapping concepts (scale and projections), acquiring different types of spatial data (raster and vector), building an error-free database, making simple queries, overlays, charts, and maps. Intended for students who want to learn GIS but lack background skills in computing or cartography. Recommended prereq., some experience with Mac or Windows. Restricted to graduate students.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5023 (4) Introduction to Quantitative Methods in Geography

Restricted to graduate students. Same as GEOG 4023.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5043 (4) Cartography 2: Interactive and Multimedia Mapping

Restricted to graduate students. Same as GEOG 4043. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5093 (4) Remote Sensing of the Environment

Restricted to graduate students. Same as GEOG 4093 and GEOL 5093. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5103 (4) Geographic Information Systems

Prereqs., introductory course in statistics and instructor consent. Restricted to graduate students. Same as GEOG 4103. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5113 (3) Seminar: Geographic Information Systems

Focuses on the current research topics in geographical information systems and selected areas of application. Includes major journal articles related to each topic. Students complete and present a seminar paper. Prereq., GEOG 4103, 5103, or instructor consent. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5203 (4) Geographic Information Science: Modeling Applications

Prereq., GEOG 4103/5103 or instructor consent. Restricted to graduate students. Recommended prereq., working knowledge of Gis software. Same as GEOG 4203. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5303 (4) GIS Programming for Spatial Analysis

Same as GEOG 4303.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-6443 (2) Remote Sensing Field Methods

Theory and practical field measurements for validation of airborne and spaceborne spectral image acquisition. Emphasizes radiative scattering properties of soil, vegetation, cryosphere, and atmosphere. Also focuses on characterization and calibration of instrumentation to measure these properties. Restricted to graduate students. Prereqs., GEOL/GEOG 4093/5093.

Recommended prereq., GEOL 5240. Same as EBIO 6440.

College of Arts & Sciences | Geography | Techniques (Skills)

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GEOG-1992 (3) Human Geographies

Examines social, political, economic, and cultural processes creating the geographical worlds in which we live, and how these spatial relationships shape our everyday lives. Studies urban growth, geopolitics, agricultural development and change, economic growth and decline, population dynamics, and migration exploring both how these processes work at global scale as well as shape geographies of particular places. Meets MAPS requirement for social science: geography.

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GEOG-2002 (3) Geographies of Global Change

Familiarizes students with spatial and ecological perspectives on economic, political, social, cultural, and environmental changes. Examines roles of transnational corporations, global media, world cities, food security, labor, migration, human rights, ethnicity, nationalism, resources, environmental degradation, and sustainable development in global change. Meets MAPS requirement for social science: geography.

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GEOG-2053 (4) Mapping a Changing World

Overviews the vital role cartography plays in modern society and contemporary science. Includes fundamentals of reading and creating maps for research and enjoyment. Lab provides hands-on experience with computer-based methods for creating useful maps.

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GEOG-2412 (3) Environment and Culture

Examines nature-culture interactions and the effects of development and resource use on environmental quality, as well as practical efforts to manage and protect the environment. Meets MAPS requirement for social science: geography.

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GEOG-3023 (4) Statistics for Geography

Introduces parametric and distribution-free statistics, emphasizing applications to earth science problems. Not open to students who have taken a college-level statistics course. Same as GEOL 3023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

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GEOG-3053 (4) Cartography: Visualization and Information Design

Introduction to the fundamentals of cartography---the science and art of map design. Emphasis on map projections, symbolization, and the design of maps with computers. Students produce series of thematic maps with modern computer-assisted techniques. Basic familiarity with computers strongly recommended. Introductory course in statistics recommended (may be taken concurrently). Restricted to junior or senior GEOG/ENVS majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) or Geography (GEOG) majors only.

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GEOG-3251 (3) Mountain Geography

Surveys mountain environments and their human use with illustrations from temperate and tropical mountain areas.

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GEOG-3301 (3) Analysis of Climate and Weather Observations

Prereqs., ATOC 1050 and 1060, or GEOG 3601/ATOC 3600/ENVS 3600, or GEOG 1001 and 1-semester calculus. Same as ATOC 3300. Approved for arts and sciences core curriculum: natural science.

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GEOG-3351 (3) Biogeography

Surveys and analyzes plant and animal distributions on a world scale from ecological and historical perspectives. Emphasizes human impact on species. Prereq., GEOG 1001.

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GEOG-3402 (3) Natural Hazards

Explores the impacts of extreme geophysical events on human society. Emphasizes adaptations to extreme events and ways of reducing vulnerability and damage.

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GEOG-3412 (3) Conservation Practice and Resource Management

Studies inventory, policy, and management of natural resources. Emphasizes practical approaches to the conservation and management of soil, land, water, and air resources. Restricted to geography and environmental studies majors.

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GEOG-3422 (3) Conservation Thought

Lect. and rec. Provides an historical survey of human consumption of earthly materials; environmental and global considerations of population growth, cultural attitude, and technological development; and diverse goals and philosophy of conservation movements in time and place.

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GEOG-3511 (4) Introduction to Hydrology

Examines hydrologic processes in the surface environment, emphasizing the environment of the western United States. Emphasizes natural processes and their management to augment water resources. Prereq., GEOG 1001 and 1011. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Geography (GEOG), Environmental Studies (ENVS) or Ecology and Evolutionary Biology (EBIO) majors only.

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GEOG-3601 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Restricted to Geography or Environmental Studies majors only. Prereqs., ATOC 1050 and 1060, or GEOG 3301/ATOC 3300, or GEOG 1001 and 1-semester calculus. Same as ATOC/ENVS 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Geography or Environmental Studies majors only.

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GEOG-3612 (3) Geography of American Cities

Introduces geography of American cities. Includes demographic and ideological contexts of urban development, emergence of the city system, location theory and rent models, and urban-economic problems.

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GEOG-3662 (3) Economic Geography

Presents several theories of location of economic activity: general theory of land use, agricultural location theory, plant location theory, central place theory, location of systems of cities, and geographical organization of industries. Studies aggregate geographical structure of regions as the geography of three major markets: labor, product, and capital, including the banking system. Explores the economic growth of regions and policies designed to influence regional growth and welfare.

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GEOG-3672 (3) Gender and the Global Economy

Examines the role of gender in global economy. Explores the impacts of colonialism and modern global economy on gender relations, with particular emphasis on third world societies. Also focuses on related issues of population politics, environmental crisis, women's sexual exploitation, and women's social movements worldwide. Prereqs., GEOG 1982, 1992,2002, 2412, WMST 2000 or 2050. Same as WMST 3672. Approved for arts and sciences core curriculum: human diversity.

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GEOG-3682 (3) Geography of International Development

Compares and contrasts global characteristics and processes of development, emphasizing the developing countries of the world. Integrates theories of development, specific development topics, and case studies to explore the problems of development. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

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GEOG-3742 (3) Place, Power, and Contemporary Culture

Presents a radical reexamination of the geography of culture. Examines the relationship between places, power, and the dynamics of culture. Explores how the globalization of economics, politics, and culture shapes local cultural change. Looks at how place-based cultural politics both assist and resist processes of globalization. Recommended prereq., GEOG 1982, 1992, or 2002.

Approved for arts and sciences core curriculum: contemporary societies.

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GEOG-3812 (3) Mexico, Central America, and the Caribbean

Introduces the geography of Latin America, focusing on the lands and peoples of Mexico, Central America, and the Caribbean. Examines regional and national culture, history, environment, and population, as well as ongoing environmental and socioeconomic changes. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412.

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GEOG-3822 (3) Geography of China

Surveys the world's most populous country, examining physical and historical geography, urbanization and regional development, agriculture, population, energy, and the environment. Seeks to situate China's development in a broader Asian and global context. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Approved for arts and sciences core curriculum: human diversity.

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GEOG-3840 (1-6) Undergraduate Independent Study

Provides an independent study opportunity, by special arrangement with faculty, for students presenting strong geography preparation. May be repeated up to 8 total credit hours. Restricted to geography majors. Prerequisites: Restricted to Geography majors only.

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GEOG-3862 (3) Geography of Africa

Studies physical and cultural regions of Africa. Analyzes and compares natural and cultural regions and the development of present nation-states. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

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GEOG-3930 (3) Internship

Provides an academically supervised opportunity for advanced geography or environmental conservation majors to work in public and private organizations on projects related to the student's career goals and to relate classroom theory to practice. May be repeated up to 6 total credit hours. Restricted to geography and environmental studies majors. Prerequisites: Restricted to Geography or Environmental Studies majors only.

[College of Arts & Sciences](#)
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GEOG-4023 (4) Introduction to Quantitative Methods in Human Geography

Introduces fundamental statistical and quantitative modeling techniques widely used in geography today. Emphasizes geographic examples and spatial problems, as are statistical routines now available on most computers. Prereq., GEOG 3023 or equivalent. Same as GEOG 5023. Prerequisites: Requires pre-requisite course of GEOG 3023.

[College of Arts & Sciences](#)
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[Techniques \(Skills\)](#)

GEOG-4043 (4) Cartography 2: Interactive and Multimedia Mapping

An advanced course in interactive, multimedia, animated, and Web-based cartography stressing the important role digital cartography plays in cyberspace. Focuses on principles of effective cartographic design in multimedia and hypertext environments. Labs are organized around hands-on active learning projects. Prereq., GEOG 3053. Same as GEOG 5043.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4093 (4) Remote Sensing of the Environment

Covers acquisition and interpretation of environmental data by remote sensing. Discusses theory and sensors as well as manual and computerized interpretation methods. Stresses infrared and microwave portions of the spectrum. Same as GEOG 5093 and GEOL 4093.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4100 (1-3) Special Topics in Geography

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also GEOG 4110 and 4120. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences | Geography

GEOG-4103 (4) Introduction to Geographic Information Science

Examines construction and use of an information system and its data specifically designed for representing and manipulating geographical data. Emphasizes modern geographical information systems including computer hardware/software with a collection of methods/procedures for recording, transforming, storing/retrieving, analyzing, and mapping geographic data. Prereq., GEOG 2053 or GEOG 3053 and introductory course in statistics. Same as GEOG 5103. Prerequisites: Requires pre-requisite courses of GEOG 2053 or 3053 and introductory course in statistics. Restricted to Junior or Senior Geography (GEOG) or Environmental Studies(ENVS) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4110 (1-4) Special Topics in Geography

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also GEOG 4100 and 4120. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences | Geography

GEOG-4120 (1-3) Special Topics in Geography

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also GEOG 4100 and 4110. May be repeated up to 6 total credit hours. Prereq., instructor consent.

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GEOG-4173 (3) Research Seminar

Examines the nature of research and develops pregraduate skills for geographic research, emphasizing problem definition, methods, sources, data interpretation, and writing. Recommended for students pursuing honors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Geography (GEOG) or Environmental Studies (ENVS) majors only.

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| College of Arts & Sciences | Geography | Techniques (Skills) |
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GEOG-4201 (3) Biometeorology

Interdisciplinary science, studying the interactions between atmospheric processes and living organisms (plants, animals, and humans). Discusses how organisms adapt to a changing environment. Uses a practical, problem-solving approach to explore these interactions. Prereq., GEOG 1001. Same as ENVS 4201.

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| College of Arts & Sciences | Geography | Physical Geography |
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GEOG-4203 (4) Geographic Information Science: Modeling Applications

Extends basic GIS concepts and mechanics. Develop GIS models for human and environmental applications. Grid and vector data models, tessellated and hierarchical data structures, terrain representation, interpolation and kriging, spatial regression. Small group projects design, implement and run GIS models. Prereq., GEOG 4103/5103 or instructor consent. Recommended prereq., working knowledge of GIS software. Same as GEOG 5203.

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| College of Arts & Sciences | Geography | Techniques (Skills) |
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GEOG-4241 (4) Principles of Geomorphology

Studies weathering, mass-wasting, fluvial, wind, and marine processes and the resulting landforms. Prereq., GEOG 1011 or any 1000-level sequence in geological sciences. Same as GEOL 4241. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

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| College of Arts & Sciences | Geography | Physical Geography |
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GEOG-4251 (4) Fluvial Geomorphology

Emphasizes landscapes formed by running water. Includes basic fluid mechanics, sediment transport, hillslope and channel erosion, and sediment yield. Prereqs., Geog 1011 and 3511. Recommended prereq., Geog 3023. Same as Geog 5251.

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| College of Arts & Sciences | Geography | Physical Geography |
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GEOG-4261 (3) Glaciers and Permafrost

Surveys the major terrestrial components of the cryosphere, including permafrost, glaciers, and ice sheets. Emphasizes physical processes involving ice, including thermal behavior, ice deformation, and mass balance, but also considers biogeochemical processes and landforms associated with ice. The climate context, including human interactions and recent climate history, will be considered. The course will be taught in a combination lecture-seminar format. Prereq., GEOG 1011 or GEOL 1010. Recommended prereq., GEOG 4241.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4292 (3) Migration, Immigrant Adaptation, and Development

Examines historical and current patterns of migration with an emphasis in international movement. Looks at leading migration theories related to both origin- and destination-based explanations while critically looking at the role of development as a potential cause and consequence of population movement. Finally, covers some aspects of immigrants' social and economic adaptation to their host society. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412. Same as GEOG 5292 and ECON 4292.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4303 (4) GIS Programming for Spatial Analysis

Focuses on the extension of geographic information systems (GIS) through programming as well as on the development of algorithms for spatial analysis and information extraction in vector and raster data. Covers concepts, principles and techniques of programming and solving spatial problems in physical and human Geography. Prereq., GEOG 4103/5103. Recommended prereq., GEOG 4203/5203. Same as GEOG 5303.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-4311 (3) Watershed Biogeochemistry

Emphasizes terrestrial-aquatic linkages in headwater catchments, focusing on hydrologic pathways, isotopic and geochemical tracers, nutrient cycling, water quality, experimental manipulations, and modeling. Prereq., GEOG 1011 and 3511. Recommended prereq., parametric statistics.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4321 (3-4) Snow Hydrology

Offers a multidisciplinary and quantitative analysis of physico-chemical processes that operate in seasonally snow-covered areas, from the micro- to global-scale: snow accumulation, metamorphism, ablation, chemical properties, biological aspects, electromagnetic properties, remote sensing, Gis, and quantitative methods. Prereqs., GEOG 1001 or 1011, and any statistics course. Same as GEOG 5321.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4331 (3-4) Mountain Climatology

Surveys and analyzes climatic characteristics of mountain environments worldwide. Prereq., GEOG 1001 or ATOC 1050 or 1060. Same as GEOG 5331.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4371 (3) Forest Geography: Principles and Dynamics

Surveys principles of forest geography and ecology. Includes both individual tree responses to environmental factors and species interactions within communities. Emphasizes forest dynamics and their relation to management problems. Prereq., GEOG 1001. Same as GEOG 5371.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4401 (3) Soils Geography

Discusses chemical and physical properties of soils, soil development, distributions, and management relevant to understanding plant-soil relationships in natural and human-altered landscapes. Prereq., GEOG 1011. Recommended prereq., inorganic chemistry. Same as GEOG 5401.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4430 (3) Seminar: Conservation Trends

Provides environmental studies or geography majors with an undergraduate format for interdisciplinary discussion and research into current and future directions of conservation. May be repeated up to 6 total credit hours. Restricted to junior and senior geography and environmental studies majors.

College of Arts & Sciences | Geography

GEOG-4501 (3) Water Resources and Water Management of Western United States

Interprets and analyzes hydroclimatic data, surface, and groundwater. Critically evaluates water use, emphasizing problems associated with geographic maldistribution, appropriations, irrigation, industry, pollution, and regional development. Same as GEOG 5501.

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GEOG-4622 (3) City Life

Analyzes social, behavioral, political, and demographic factors that influence development and maintenance of communities in contemporary urban environments, with primary emphasis on U.S. cities. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412. Same as GEOG 5622.

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GEOG-4632 (3) Development Geography

Provides an overview of development policy and practice, surveying foundational works in Development Studies as well as critical interventions. Required for Graduate Certificate in Development Studies. Prereqs. for GEOG 4632 are GEOG 1982, 1992, 2002 or 2412. Recommended prereq., GEOG 3682. GEOG 4632 and 5632 are the same course.

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GEOG-4712 (3) Political Geography

Systematic study of relations between geography and politics, especially as background for better understanding of international affairs. Includes topics such as frontiers and boundaries, power analysis, geopolitics, international political economy, and strategic concepts. Recommended prereqs., GEOG 1982, 1992, 2002, 2412, IAFS 1000, PSCI 2012 or 2223. Restricted to GEOG, IAFS, ENVS, junior/senior majors. Same as GEOG 5712.

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GEOG-4722 (3) Field Methods in Human Geography

Examines research methods associated with field work in human geography. Prepares students for fieldwork by focusing on geographic and interdisciplinary field work techniques; interpretation of field data; and discussion of the politics, ethics and gender, race, class, and cross-cultural issues related to field work. Prereqs., 15 credit hours in human geography. Same as GEOG 5722.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4732 (3) Population Geography

Emphasizes spatial aspects of population characteristics including fertility, mortality, migration, distribution, and composition. Includes both theoretical and empirical considerations, in addition to field work and computer simulations. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Same as GEOG 5732.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4742 (3) Environments and Peoples

Studies the interaction of people and the environment, including human adaptation and modification of environments, cultural interpretation and construction of landscapes, and natural resources and land management. May be taken twice. Topics vary. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4812 (3) Environment and Development in South America

Presents theoretical approaches to the links between environment and development in Latin America and focuses on analytical discussion of contemporary (and controversial) issues in sustainable development in South America. Examines social, ecological, economic, and political forces influencing the use of natural resources. Recommended prereqs., GEOG 1982, 1992, 2002, 3812, 3422, ANTH 3110, or PSCI 3032.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4822 (3) Environment and Development in China

Examines key environmental problems in relation to China's rapid modernization and development. Recommended prereqs., GEOG 1982, 1992, 2002 or HIST 1608.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4832 (3) Geography of Tibet

Rigorously examines contemporary Tibetan society, culture, and nature from a geographical perspective. Uses readings on contemporary Tibet as an entry point into scholarly research about

nationalism, representation, diaspora, landscape and place, sustainable development, natural resource management, identity, and environmentalism. Prereqs., GEOG 3822 or other classes on China. Same as GEOG 5832.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4852 (3) Health and Medical Geography

Examines geographical patterns of health and disease with an emphasis on global health issues. Focuses on three major approaches to medical geographic research: ecological approaches, which systematically analyze relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches, which employ maps and spatial analysis to identify patterns of health and disease. Recommended prereqs., GEOG 1001 or 1011, and GEOG 1992, 2002 or 2412. Restricted to juniors/seniors. GEOG 4852 and 5852 are the same course.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4892 (3) Geography of Western Europe

Provides a regional survey of cultural, political, economic, social, and physical geography of Western Europe, emphasizing the distinctive character and problems of each major area and the relationship of the region to the world. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4990 (3) Senior Thesis

Offers thesis research under faculty supervision. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Geography (GEOG) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Geography

GEOG-5003 (4) Elements of Geographic Information Systems

Discusses incorporating GIS methods into graduate thesis or dissertation research. Reviews basic mapping concepts (scale and projections), acquiring different types of spatial data (raster and vector), building an error-free database, making simple queries, overlays, charts, and maps. Intended for students who want to learn GIS but lack background skills in computing or cartography. Recommended prereq., some experience with Mac or Windows. Restricted to graduate students.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5023 (4) Introduction to Quantitative Methods in Geography

Restricted to graduate students. Same as GEOG 4023.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5043 (4) Cartography 2: Interactive and Multimedia Mapping

Restricted to graduate students. Same as GEOG 4043. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5093 (4) Remote Sensing of the Environment

Restricted to graduate students. Same as GEOG 4093 and GEOL 5093. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5100 (1-4) Special Topics: Geography

Covers various topics outside of the normal curriculum; offered intermittently depending on student demand and availability of faculty. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-5103 (4) Geographic Information Systems

Prereqs., introductory course in statistics and instructor consent. Restricted, to graduate students. Same as GEOG 4103. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5113 (3) Seminar: Geographic Information Systems

Focuses on the current research topics in geographical information systems and selected areas of application. Includes major journal articles related to each topic. Students complete and present a seminar paper. Prereq., GEOG 4103, 5103, or instructor consent. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5152 (3) History and Theory of Geography

History of ideas and institutions that have shaped contemporary geographic inquiry. Examines the evolving relations among human geography, physical geography, environment-society relations, and geographic information processing. Designed to situate graduate student research within major subfields and intellectual currents of geography. Restricted to graduate students. Prerequisites: Restricted to Geography (GEOG) graduate students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5161 (3) Research Design in Geography

The human section reads and discusses contemporary research philosophies and methodologies in human geography. Practices the development of research proposals and presentation of research ideas and results. The physical section reads and discusses contemporary research philosophies and methodologies in physical geography (climatology, geomorphology, biogeography, and soils geography). Practices the development of research proposals and presentation of research ideas. Restricted to geography graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5203 (4) Geographic Information Science: Modeling Applications

Prereq., GEOG 4103/5103 or instructor consent. Restricted to graduate students. Recommended prereq., working knowledge of Gis software. Same as GEOG 4203. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5211 (3) Seminar: Physical Climatology

Involves a research seminar concerned with problems of mass and energy exchange in the Earth-atmosphere system. Selects topics from such areas as air quality, bioclimatology, hydrology, climate change, and the climates of urban, agricultural, and natural environments. Restricted to graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5221 (3) Synoptic and Dynamic Climatology

Examines global climates from the standpoint of synoptic and dynamic climatology. Prereqs., GEOG 3201 or equivalent, 3000-level course in climate/atmospheric sciences, and instructor consent. Restricted to graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5241 (1-3) Topics in Physical Geography

Presents recent research topics that vary from year to year. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

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GEOG-5251 (4) Fluvial Geomorphology

Restricted to graduate students. Same as GEOG 4251.

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GEOG-5271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course. Prerequisites: Restricted to Graduate Students only.

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[Physical Geography](#)

GEOG-5292 (3) Migration, Immigrant Adaptation, and Development

Restricted to graduate students. Same as GEOG 4292 and ECON 4292. Prerequisites: Restricted to Graduate Students only.

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GEOG-5303 (4) GIS Programming for Spatial Analysis

Same as GEOG 4303.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5321 (3-4) Snow Hydrology

Restricted to graduate students. Same as GEOG 4321.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5331 (3-4) Mountain Climatology

Restricted to graduate students. Same as GEOG 4331.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5371 (3) Forest Geography: Principles and Dynamics

Restricted to graduate students. Same as GEOG 4371. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5391 (3) Seminar: Biogeography

Considers in detail current research themes in biogeography. Includes intensive reading of current research literature and preparation of research papers. Restricted to graduate students. Topics vary; may be taken twice.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5401 (3) Soils Geography

Restricted to graduate students. Same as GEOG 4401.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5501 (3) Water Resources and Water Management of Western United States

Restricted to graduate students. Same as GEOG 4501.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5622 (3) City Life

Restricted to graduate students. Same as GEOG 4622.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5632 (3) Development Geography

Provides an overview of development policy and practice, surveying foundational works in Development Studies as well as critical interventions. Required for Graduate Certificate in Development Studies. Prereqs. for GEOG 4632 are GEOG 1982, 1992, 2002 or 2412. Recommended prereq., GEOG 3682. GEOG 4632 and 5632 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5642 (3) Seminar: Urban Geography

Restricted to graduate students. Surveys current research topics in urban geography. Emphasizes definition of possible student thesis topics.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5712 (3) Political Geography

Restricted to graduate students. Same as GEOG 4712. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5722 (3) Field Methods in Human Geography

Restricted to graduate students. Same as GEOG 4722.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5732 (3) Population Geography

Restricted to graduate students. Same as GEOG 4732. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5762 (3) Sustainable Development: Theory and Classic Issues

Provides an assessment of sustainable development primarily as it relates to the Third World. Follows a sequence from development theory through facts, approaches, and goals. Investigates specific topical problems and closes with analyses of case studies. Restricted to graduate students.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5772 (3) Sustainable Development: Institutions and Policy

Investigates the links between social theory, development practice, and policy. Restricted to graduate students.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5782 (3) Sustainable Development: Critique

Investigates historical and contemporary theories and critiques of development and their implications for geographic theory and method. Focuses on the role of representation in evaluating case studies and examining the potential for a sustainable development. Prereq., graduate standing. Recommended prereq., GEOG 5762.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5832 (3) Geography of Tibet

Same as GEOG 4832.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5840 (1-3) Graduate Independent Study

Offers independent research for master's students only. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-5852 (3) Health and Medical Geography

Examines geographical patterns of health and disease with an emphasis on global health issues. Focuses on three major approaches to medical geographic research: ecological approaches, which systematically analyze relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches, which employ maps and spatial analysis to identify patterns of health and disease. Recommended prereqs., GEOG 1001 or 1011, and GEOG 1992, 2002 or 2412. Restricted to juniors/seniors. GEOG 4852 and 5852 are the same course.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5930 (3) Advanced Internship

Provides an academically supervised opportunity for graduate-level geography majors to work in public and private organizations on advanced projects related to geographic theory and their career goals. May be repeated up to 7 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-5961 (3) Theories of Climate and Climate Variability

Critically reviews current theories of climatic variability based on analysis of the different physical processes affecting climate. Restricted to graduate students. Same as ATOC 5960.

College of Arts & Sciences | Geography | Physical Geography

GEOG-6180 (1-3) Seminar: Geographic Problems

Applies research methods to selected problems. Topics vary with instructor. Restricted to graduate students. May be repeated up to 7 total credit hours.

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GEOG-6211 (1-3) Readings in Climatology

Discusses selected topics in current climatological literature. Specific themes vary. Restricted to graduate students. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

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GEOG-6402 (3) Seminar: Comparative Environmental Studies

Critically examines cross-cultural experience with adjustments to natural hazards and political management of resource exploitation. Restricted to graduate students. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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GEOG-6443 (2) Remote Sensing Field Methods

Theory and practical field measurements for validation of airborne and spaceborne spectral image acquisition. Emphasizes radiative scattering properties of soil, vegetation, cryosphere, and atmosphere. Also focuses on characterization and calibration of instrumentation to measure these properties. Restricted to graduate students. Prereqs., GEOL/GEOG 4093/5093. Recommended prereq., GEOL 5240. Same as EBIO 6440.

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GEOG-6712 (3) Seminar: Political Geography

Considers in detail history and methodology of the field, including an analysis of selected systematic topics such as frontiers and boundaries, international rivers, conflicting claims to territory, and electoral geography. Restricted to graduate students. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-6732 (3) Formal Population Geography: Analysis and Forecasting

An in-depth introduction to formal Demography. In addition to learning the basic demographic tools used nowadays in fertility, marriage, mortality, migration, and forecasting/projections, it also looks at some potential links between formal and statistical demographic work that would enable the student to apply some of the methods learnt in an econometric or multivariate setting. Prereqs., GEOG 4023/5023 or equivalent. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-6742 (3) Seminar: Cultural Geography

Explores various geographic topics emphasizing the concept of culture. Emergence of several points of view in the development of cultural geography. Restricted to graduate students. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-6940 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-7840 (1-3) Graduate Independent Study

Offers independent research for doctoral students only. Restricted to graduate students. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

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GEOG-4201 (3) Biometeorology

Interdisciplinary science, studying the interactions between atmospheric processes and living organisms (plants, animals, and humans). Discusses how organisms adapt to a changing environment. Uses a practical, problem-solving approach to explore these interactions. Prereq., GEOG 1001. Same as ENVS 4201.

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GEOG-4241 (4) Principles of Geomorphology

Studies weathering, mass-wasting, fluvial, wind, and marine processes and the resulting landforms. Prereq., GEOG 1011 or any 1000-level sequence in geological sciences. Same as GEOL 4241. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

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GEOG-4251 (4) Fluvial Geomorphology

Emphasizes landscapes formed by running water. Includes basic fluid mechanics, sediment transport, hillslope and channel erosion, and sediment yield. Prereqs., Geog 1011 and 3511. Recommended prereq., Geog 3023. Same as Geog 5251.

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GEOG-4261 (3) Glaciers and Permafrost

Surveys the major terrestrial components of the cryosphere, including permafrost, glaciers, and ice sheets. Emphasizes physical processes involving ice, including thermal behavior, ice deformation, and mass balance, but also considers biogeochemical processes and landforms associated with ice. The climate context, including human interactions and recent climate history, will be considered. The course will be taught in a combination lecture-seminar format. Prereq., GEOG 1011 or GEOL 1010. Recommended prereq., GEOG 4241.

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GEOG-4271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course.

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GEOG-4311 (3) Watershed Biogeochemistry

Emphasizes terrestrial-aquatic linkages in headwater catchments, focusing on hydrologic pathways, isotopic and geochemical tracers, nutrient cycling, water quality, experimental manipulations, and modeling. Prereq., GEOG 1011 and 3511. Recommended prereq., parametric statistics.

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GEOG-4321 (3-4) Snow Hydrology

Offers a multidisciplinary and quantitative analysis of physico-chemical processes that operate in seasonally snow-covered areas, from the micro- to global-scale: snow accumulation, metamorphism, ablation, chemical properties, biological aspects, electromagnetic properties, remote sensing, Gis, and quantitative methods. Prereqs., GEOG 1001 or 1011, and any statistics course. Same as GEOG 5321.

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GEOG-4331 (3-4) Mountain Climatology

Surveys and analyzes climatic characteristics of mountain environments worldwide. Prereq., GEOG 1001 or ATOC 1050 or 1060. Same as GEOG 5331.

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GEOG-4371 (3) Forest Geography: Principles and Dynamics

Surveys principles of forest geography and ecology. Includes both individual tree responses to environmental factors and species interactions within communities. Emphasizes forest dynamics and their relation to management problems. Prereq., GEOG 1001. Same as GEOG 5371.

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GEOG-4401 (3) Soils Geography

Discusses chemical and physical properties of soils, soil development, distributions, and management relevant to understanding plant-soil relationships in natural and human-altered landscapes. Prereq., GEOG 1011. Recommended prereq., inorganic chemistry. Same as GEOG 5401.

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GEOG-4501 (3) Water Resources and Water Management of Western United States

Interprets and analyzes hydroclimatic data, surface, and groundwater. Critically evaluates water use, emphasizing problems associated with geographic maldistribution, appropriations, irrigation, industry, pollution, and regional development. Same as GEOG 5501.

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GEOG-5161 (3) Research Design in Geography

The human section reads and discusses contemporary research philosophies and methodologies in human geography. Practices the development of research proposals and presentation of research ideas and results. The physical section reads and discusses contemporary research philosophies and methodologies in physical geography (climatology, geomorphology, biogeography, and soils geography). Practices the development of research proposals and presentation of research ideas. Restricted to geography graduate students.

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GEOG-5211 (3) Seminar: Physical Climatology

Involves a research seminar concerned with problems of mass and energy exchange in the Earth-atmosphere system. Selects topics from such areas as air quality, bioclimatology, hydrology, climate change, and the climates of urban, agricultural, and natural environments. Restricted to graduate students.

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GEOG-5221 (3) Synoptic and Dynamic Climatology

Examines global climates from the standpoint of synoptic and dynamic climatology. Prereqs., GEOG 3201 or equivalent, 3000-level course in climate/atmospheric sciences, and instructor consent. Restricted to graduate students.

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GEOG-5241 (1-3) Topics in Physical Geography

Presents recent research topics that vary from year to year. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours. Restricted to graduate students.

Prerequisites: Restricted to Graduate Students only.

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GEOG-5251 (4) Fluvial Geomorphology

Restricted to graduate students. Same as GEOG 4251.

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GEOG-5271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course. Prerequisites: Restricted to Graduate Students only.

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GEOG-5321 (3-4) Snow Hydrology

Restricted to graduate students. Same as GEOG 4321.

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GEOG-5331 (3-4) Mountain Climatology

Restricted to graduate students. Same as GEOG 4331.

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GEOG-5371 (3) Forest Geography: Principles and Dynamics

Restricted to graduate students. Same as GEOG 4371. Prerequisites: Restricted to Graduate Students only.

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GEOG-5391 (3) Seminar: Biogeography

Considers in detail current research themes in biogeography. Includes intensive reading of current research literature and preparation of research papers. Restricted to graduate students. Topics vary; may be taken twice.

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GEOG-5401 (3) Soils Geography

Restricted to graduate students. Same as GEOG 4401.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5501 (3) Water Resources and Water Management of Western United States

Restricted to graduate students. Same as GEOG 4501.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5961 (3) Theories of Climate and Climate Variability

Critically reviews current theories of climatic variability based on analysis of the different physical processes affecting climate. Restricted to graduate students. Same as ATOC 5960.

College of Arts & Sciences | Geography | Physical Geography

GEOG-6211 (1-3) Readings in Climatology

Discusses selected topics in current climatological literature. Specific themes vary. Restricted to graduate students. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Physical Geography



HONR-1810 (3) Honors Diversity Seminar

Students will develop an appreciation for, and experience with, diverse perspectives. In particular this includes: racial/ethnic, gender, sexual orientation, and class perspectives, for constructing knowledge as they proceed through their undergraduate studies. Three themes provide the framework for the course: education for the next century, the 21st century citizen, and the modern individual in a diverse society. Topics explored include privilege, stigmatization, targeted and nontargeted grouping, and oppression. Engaging in independent research and experiential, empathetic experiences is required. Approved for arts and sciences core curriculum: human diversity. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-2250 (3) Ethics of Ambition

Through selected readings in classical literature on ethics and through more contemporary readings and films, examines critical ethical issues relating to the competition of ambitions and the alternative styles of choosing between courses of action in a dangerous world. Uses biographies of those whose lives illustrate both the complexities of the struggles and the profundity of possibilities. Considers the unconscious metaphors of national visions and ambitions, the competing ethics of ends and means, the conflicting ambitions in a pluralistic society, and the transcendent ambitions of visionaries. Same as FARR 2660. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-2251 (3) Introduction to the Bible

Studies the major works, figures, and genres of the Bible and attempts to understand what they meant to their own time and why they became so important to Western civilization and contemporary America. Approved for arts and sciences core curriculum: historical content. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-2500 (3) Open Topics

Variety of new courses at the 2000 level. See honors program announcements for specific contents. May be repeated up to 6 total credit hours. Prereq., GPA 3.30 or higher. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-2610 (1) Leadership Practicum: Kittredge Honors Program Flock Leaders

Required for students who are selected as flock leaders for the Kittredge honors residence program. Teaches skills and techniques to enable them to lead a small group in the unique environment of a residential honors program. May be repeated up to 6 total credit hours. Prereq., consent of Kittredge honors program associate director.

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HONR-2860 (3) The Figure of Socrates

Investigates why Socrates intrigued great writers like Aristophanes, Plato, Xenophon, and Aristotle and why, through his life and execution by the Athenian democracy, he still influences Western ethics, politics, and education and is central to cultural literacy. Approved for arts and sciences core curriculum: literature and the arts.

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HONR-3001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of a lecture course. Designed typically for 10--15 students, coseminars are taken either for an additional 1 credit hour or in place of a recitation. Coseminars are designed to provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity.

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HONR-3004 (3) Women in Education

Honors women in education and their legacy. Introduces women educators, beginning in the late 19th century, whose significant theories of education and work-inteaching have had an impact on all of our lives, in history, and in society. Explores the educational theories and methods of several representative women educators and analyzes them through an investigation of their professional and personal lives. Same as WMST 3004. Approved for arts and sciences core curriculum: human diversity.

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HONR-3056 (3) Experience of Learning

Major historical, psychological, philosophical and personal perspectives on education in general and university education in particular will be developed. Participants will be encouraged to consider how the issues discussed and the ideas developed in the seminar bear on the choices they face in planning their own educations. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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HONR-3220 (3) Advanced Honors Writing Workshop

Intensive practice of expository writing skills, particularly argumentation in longer forms. Course includes extensive practice in researching secondary sources, synthesizing large bodies of information, structuring cogent arguments for diverse sources, etc. Approved for GT-CO3. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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HONR-3270 (3) Journey Motif in Women's Literature

Investigates the application of the theme of the journey to developmental narratives by analyzing modern British and American writings by women. Applies methods from psychology, feminist studies, gay studies, cultural studies to concepts of development, regression, progress, escape. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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HONR-3550 (1-6) Open Topics

Investigates special topics in humanities, social sciences, and natural sciences. Topics vary from semester to semester and from course to course. See Honors program announcements for specific contents. Open to Honors-qualified students beyond the freshman year. May be repeated for up to six credit hours for different topics.

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HONR-3560 (3) Science and Mysticism

Has modern science proven or validated the mystical religious experience? Or does a basic conflict remain between these diverse human endeavors? The similarities and differences between science and mysticism will be investigated through readings, discussions and practical, experiential exercises. Discussions and exercises will be designed to encourage both an intellectual and a non-intellectual understanding of the course material. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-3810 (3) Privilege and Modern Social Construction

This course examines social constructions that lead to productive interactions between and among American social communities. Using case studies and humanistic accounts, students analyze the lived experiences of a unique group or successful citizens who routinely evidence productive practices of multicultural engagement. Through interactions with policy makers and community practitioners, students design and enact activities that allow them to reconstruct their personal patterns of privilege practices of their peer groups in various settings. Prereq., HONR 1810 or demonstrated academic study of race, class, and gender. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-4000 (3) Open Topics

Variety of new courses at the 4000 level, see Honors Program announcements for specific contents. May be repeated up to 6 total credit hours. Restricted to juniors/seniors or instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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HONR-4025 (3) Heroines and Heroic Tradition

Given recent controversies about the roles of women in power, this course re-evaluates heroic traditions as the stories that ground our sense of public endeavor. What do we mean by heroic? What is a heroine? Are heroines different from heroes? Approved for arts and sciences core curriculum: human diversity. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

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HONR-4055 (3) Discourse Analysis and Cultural Criticism

Discourse analysis critically investigates the founding assumptions by which systems of meaning operate. Its practice is aimed at a rigorous, systematic analysis of both specific cultural issues and the dynamics by which structures of meaning may be maintained or transformed. Coreq., HONR 4056. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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HONR-4056 (1-3) Service Practicum: Discourse Analysis and Cultural Criticism

Help communities in need, with credit hours varying according to time commitment. The practicum provides experiential and intellectual understanding of the discourses and dynamics that maintain major cultural hierarchies of values and of resource distribution. Coreq., HONR 4055. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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HONR-4959 (3-6) Honors Thesis

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PSYC-2012 (3) Biological Psychology 1

Surveys biological bases of learning, motivation, emotion, sensory processes and perception, movement, comparative animal behavior, sexual and reproductive activity, instinctual behavior, neurobiology of language and thought, and neurophysiology and neuroanatomy in relation to behavior. Prereq., PSYC 1001. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Psychology | Biological

PSYC-2022 (3) Biological Psychology 2

Continuation of PSYC 2012. Integrates knowledge and facts presented in PSYC 2012 into current topics in biopsychology. Course no longer taught after fall 2003, except through Continuing Education correspondence. Prereq., PSYC 2012.

College of Arts & Sciences | Psychology | Biological

PSYC-3102 (3) Behavioral Genetics

Inheritance of behavioral characteristics. Prereq., PSYC 3101.

College of Arts & Sciences | Psychology | Biological

PSYC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

College of Arts & Sciences Psychology Biological

PSYC-4062 (3) The Neurobiology of Stress

Provides an introduction to the concept of stress and the physiological systems involved. Factors modulating stress vulnerability versus resilience, and stress interactions with other systems with health relevance will be explored. Emphasis will be placed on current research on brain mechanisms. A strong foundation and interest in biological psychology, neuroscience, and physiology is recommended. Prereqs., PSYC 2012 or NRSC 2100 or instructor consent. Prerequisites: Requires pre-requisite course of PSYC 2012 or NRSC 2100 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior).

College of Arts & Sciences Psychology Biological

PSYC-4142 (3) Brain Injury, Plasticity and Recovery: From Neuron to Behavior

Traumatic brain injury is prevalent in all aspects of society, with incidence rates varying according to age, gender, military affiliation and participation in certain sports. The course will delve into the full spectrum of consequences following injury, beginning with the individual neural cells in the brain through to the behaving individual. It will also cover strategies to improve functional recovery. Prereq., PSYC 2012 or NRSC 2100. Recommended prereq., PSYC/NRSC 4132. Restricted to junior/seniors or instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Psychology Biological

PSYC-5052 (4) Behavioral Neuroscience

PSYC 5052 and NRSC 5052 are the same course. Same as PSYC/NRSC 4052.

College of Arts & Sciences Psychology Biological

PSYC-5082 (2-3) Seminar: Biological Psychology

Special topics concerning biological bases of behavior. Prereqs., PSYC 4052 and instructor consent.

College of Arts & Sciences Psychology Biological

PSYC-5102 (2) Behavioral Genetics

Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Biological

PSYC-5112 (3) Concepts in Behavioral Genetics

Examines selected topics in greater detail than is possible in the comprehensive undergraduate course in behavioral genetics (PSYC 3102). Topics covered may include inheritance of behavioral characteristics from perspectives of pharmacogenetics, transmission genetics, biochemical genetics, and evolutionary genetics. May be repeated up to 9 total credit hours. Instructor consent required.

College of Arts & Sciences | Psychology | Biological

PSYC-5122 (3) Quantitative Genetics

Surveys principles of genetics of quantitative characteristics. Topics include gene frequencies, effects of mutation, migration, and selection. Also looks at correlations among relatives, heritability, inbreeding, crossbreeding, and selective breeding.

College of Arts & Sciences | Psychology | Biological

PSYC-5232 (2) Molecular Genetics and Physiology

Covers fundamental mechanisms of gene action, including genome structure and regulation of gene expression. Discusses molecular techniques used to examine human genetic diseases. Emphasizes genetic diseases with behavioral, neurologic, and physiologic abnormalities. Prereq., IPHY/PSYC 5200 or instructor consent. Same as IPHY 5232.

College of Arts & Sciences | Psychology | Biological

PSYC-5242 (3) Biometrical Methods in Behavioral Genetics

Studies development of structural models appropriate to behavioral genetics and the estimation procedures necessary for their application. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Biological

PSYC-5262 (3) Mammalian Neuroanatomy

Covers microscopic anatomy and function of different brain regions. Emphasizes correlation between structure and function, particularly at cellular and synaptic level. Course includes brain dissection, description of neuroanatomical and neurohistological techniques, and an introduction to the ultrastructure of neurons. Prereqs., PSYC 4052 or NRSC 4052 or MCDB 4190, and instructor consent.

College of Arts & Sciences | Psychology | Biological

PSYC-7012 (1-3) Research in Behavioral Genetics

Individual research projects. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Biological

PSYC-7102 (2) Seminar: Behavioral Genetics

Intensive study of selected topics in behavioral genetics. Emphasizes recent research. Attention to both human and animal studies. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Biological

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PSYC-2012 (3) Biological Psychology 1

Surveys biological bases of learning, motivation, emotion, sensory processes and perception, movement, comparative animal behavior, sexual and reproductive activity, instinctual behavior, neurobiology of language and thought, and neurophysiology and neuroanatomy in relation to behavior. Prereq., PSYC 1001. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

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PSYC-2022 (3) Biological Psychology 2

Continuation of PSYC 2012. Integrates knowledge and facts presented in PSYC 2012 into current topics in biopsychology. Course no longer taught after fall 2003, except through Continuing Education correspondence. Prereq., PSYC 2012.

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PSYC-2145 (3) Introductory Cognitive Psychology

Introduces the study of cognitive processes of human beings: sensation, perception, attention, pattern recognition, memory, learning, language, visual thought, reasoning, problem solving, and decision making. Discusses applications to education, human factors, human computer interaction, law, and other areas of psychology. Prereq., PSYC 1001.

College of Arts & Sciences | Psychology | Experimental

PSYC-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and CSCI 3702.

College of Arts & Sciences | Psychology | Experimental

PSYC-3105 (3) Experimental Methods in Psychology

Provides an introduction to the use of experimental procedures in psychology. Students learn about the logic and design of experiments, the meaning of psychological data, how to analyze and interpret data, and the role of theory in psychology. Prereqs., Psyc 1001 and 3101. Recommended prereq., Psyc 2145.

College of Arts & Sciences | Psychology | Experimental

PSYC-4145 (4) Advanced Cognitive Psychology

Advanced course in human cognitive processes. Focuses on attention pattern recognition. Memory, learning, language, visual thought, reasoning, problem solving, and decision making. Discusses major theories and ideas in terms of the research they have inspired. Emphasis varies with instructor. One lab per week; research project required. Prereqs., PSYC 1001, 2145, and 3101. Same as PSYC 5145. Prerequisites: Requires pre-requisite classes of PSYC 1001, 2145, and 3101.

College of Arts & Sciences | Psychology | Experimental

PSYC-4155 (4) Cognitive Neuroscience/Neuropsychology

An introduction to cognitive neuroscience and neuropsychology. Provides a survey of the neuropsychological underpinnings for a wide range of cognitive functions: motor control, object recognition, spatial processing, attention, language, memory and emotion. One lab, three lectures per week. Prereqs., PSYC 1001, 2012 or NRSC 2100, PSYC 3101 or MATH 2510 or MATH 2520 or IPHY 2800 or APPM 1710 or APPM 2750 or CHEN 3010 or CHEN 3130 or ECON 3818. Same as NRSC 4155.

College of Arts & Sciences | Psychology | Experimental

PSYC-4165 (4) Psychology of Perception

One lab, three lect. per week. Analyzes peripheral and central mechanisms involved in the transduction and interpretation of experience. Gives special attention to vision and audition; major theories in these areas are discussed in terms of research they have inspired. Prereqs., PSYC 1001 and 3101.

College of Arts & Sciences | Psychology | Experimental

PSYC-4175 (4) Computational Cognitive Neuroscience

Introduction to cognitive neuroscience (how the brain gives rise to thought) using computer simulations based on the neural networks of the brain. Covers a full range of cognitive phenomena including perception and attention, learning and memory, language, and higher-level cognition based on both large-scale cortical neuroanatomy and detailed properties of cortical neural networks. One lab per week. Recommended only for students with a strong interest in the topic, as it requires a combination of computer modeling, neuroscience and cognition. Prereq., PSYC 1001, 2012, 2145, and 3101. Same as PSYC 5175. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Experimental

PSYC-4385 (3) Ethology and Comparative Psychology

Discusses behavior of representative members of each animal phylum. Emphasizes ontogeny of behavior as well as phylogeny. Prereq., PSYC 1001 or EBIO 1210. Same as PSYC 5385.

College of Arts & Sciences | Psychology | Experimental

PSYC-5145 (4) Advanced Cognitive Psychology

Instructor consent required. Same as PSYC 4145. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5175 (4) Computational Cognitive Neuroscience

Instructor consent required. Same as PSYC 4175. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5385 (3) Ethology and Comparative Psychology

Prereq., instructor consent. Same as Psyc 4385.

College of Arts & Sciences Psychology Experimental

PSYC-5665 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey to topics in experimental psychology. General areas are higher-level cognition, attention, and learning and memory. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5685 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey of topics in experimental psychology. General areas are research methods in cognitive psychology, and low-level perception. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5695 (2) Proseminar: Memory

Provides beginning Ph.D. students with a basic introduction to (primarily human) memory research. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives on memory. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5815 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey of topics in experimental psychology. General areas are language and high-level thinking. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent.

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PSYC-5825 (2) Proseminar: Executive Function

Provides beginning Ph.D. students with basic introduction to research on executive functions -- a set of general-purpose control processes regulate one's thoughts and behaviors. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives on executive function. Prerequisites: Restricted to Graduate Students only.

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PSYC-5835 (2) Proseminar: Thinking

Provides beginning Ph.D. students with a basic introduction to research on complex human cognition. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives. Prerequisites: Restricted to Graduate Students only.

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PSYC-7215 (3) Seminar: Experimental Psychology

Advanced seminar dealing with different specialized topics, at the discretion of the instructor, in different years. Topics chosen are within the broad range of experimental psychology. Instructor consent required. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

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PSYC-7315 (2) Advanced Research Seminar on Human Memory

Addresses topics in the experimental psychology of human memory. Content varies from semester to semester, depending on interests of faculty and students. a sample topic is the long-term retention of skills. Prereq., graduate standing in psychology or related disciplines.

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PSYC-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as LING 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

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PSYC-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as LING 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-7765 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint PhD in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and LING 7762.

College of Arts & Sciences | Psychology | Experimental

PSYC-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the LCS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in LCS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810.

College of Arts & Sciences | Psychology | Experimental

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PSYC-2606 (3) Social Psychology

Covers general psychological principles underlying social behavior. Analyzes major social psychological theories, methods, and topics, including attitudes, conformity, aggression, attraction, social perception, helping behavior, and group relations. Prereq., PSYC 1001. Credit not granted for this course and PSYC 4406. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Psychology](#) [Social](#)

PSYC-4136 (4) Judgment and Decision Making

One lab, three lectures per week. Introduces the study of judgment and decision making processes (estimation, prediction and diagnosis, choice under certainty, and risky decision making) and the methods that have been developed to improve these processes (statistical modeling, decision analysis, and expert systems). Prereqs., PSYC 1001, 2606 and 3101. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

[College of Arts & Sciences](#) [Psychology](#) [Social](#)

PSYC-4376 (4) Research Methods in Social Psychology

Designed primarily for psychology majors interested in learning about research methodology. Topics include research design, data collection and data analysis, and written research reports. Prereqs., PSYC 1001, 2606, and 3101. Prerequisites: Requires pre-requisite classes of PSYC 1001, 2606, and 3101. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

[College of Arts & Sciences](#) [Psychology](#) [Social](#)

PSYC-4456 (3) Psychology of Personality

Offers a psychological study of structure, organization, and development of the person as a whole. Analysis of major theories, methods, and research, including topics such as emotion, motivation, temperament, inner experience, identity and the self, personality change, and the influence of sociocultural context.

College of Arts & Sciences Psychology Social

PSYC-4606 (3) Advanced Topics in Social Psychology

In-depth study of selected topics in social psychology. Particular section content each semester is determined by the instructor. May be repeated for a maximum of 6 credit hours, provided the topics vary. Prereqs., PSYC 1001, 2606 and 3101. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Social

PSYC-5606 (3) Proseminar: Social-Personality Psychology

Provides a thorough introduction to methods and theories in social psychology concerned with topics such as the self, social cognition, judgment and decision making, attitude formation and change, small group processes, inter-group relations, health and social psychology, and others. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

PSYC-6606 (1) Professional Issues in Social Psychology

Covers a range of topics important for professional development in social psychology, including preparation and delivery of research presentations, preparation of grant proposals and manuscripts, and peer review of manuscripts. Intended to prepare students for careers as research scientists. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

PSYC-7536 (3) Personality and Social Psychology

Selected topics in the area of social-personality psychology. Students may register for more than one section of this course within the term and/or within their graduate career. These seminars may be on one of the following topics: stereotyping and person perception, social psychology and self, social psychology of problem behavior, health and social psychology, race and ethnic identity, or groups and small group organization. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

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PSYC-2643 (3) Child and Adolescent Psychology

Surveys major psychological processes of childhood and adolescence. Prereq., PSYC 1001.

College of Arts & Sciences | Psychology | Clinical

PSYC-3313 (4) Psychopathology

Three hours lec. and two hours rec. per week. Analyzes major theories of personality and behavioral disorders. Restricted to junior and senior PSYC majors. Prereq. PSYC 1001 or instructor consent. Credit not granted for this course and PSYC 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4303 (3) Abnormal Psychology

Examines borderline disorders as extreme variations of the normal personality. Focuses on major functional and organic disorders, theories of mental disorders, and methods of psychotherapy. Prereq., PSYC 1001. Credit not granted for this course and PSYC 3313.

College of Arts & Sciences | Psychology | Clinical

PSYC-4443 (4) Research Methods in Clinical Psychology

Learn to evaluate research methods as they relate to etiology, assessment, and intervention of psychological disorders. Emphasizes the importance of using sound methodological strategies in both research and clinical settings. Three lectures, one lab per week. Prereqs., PSYC1001, 3101, and 3313 or 4303. Prerequisites: Requires pre-requisite classes of PSYC 1001, PSYC 3101, and either PSYC 3313 or 4303. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4543 (3) Clinical Neuropsychological Disorders

Neuropsychological disorders are behavioral and cognitive expressions of underlying brain diseases or injury. The course will provide in-depth coverage from clinical perspectives of wide range of disorders caused by stroke, traumatic brain injury, degenerative diseases, and inflammatory diseases. Students will learn the various neurologic, neuroimaging and neuropsychological methods for assessing and diagnosing these disorders and will review specific illustrative cases. Recommended prereqs., PSYC 3313 or 4303. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4553 (3) Women's Mental Health: A Biopsychosocial Approach

Examines women's mental health risks as they occur over the life span, from adolescence through menopause, and helps students develop a multi-dimensional understanding of factors contributing to the higher prevalence of women's mental health disorders, including social, neurobiological, cultural, developmental, reproductive, behavioral, cognitive and emotional factors. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 3313 or 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4713 (3) Survey of Clinical Psychology

Covers theories and practices relating to problems of ability and maladjustment. Diagnostic procedures and treatment methods with children and adults. Prereq., PSYC 3313 or 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4733 (4) Psychological Testing and Assessment

Provides an overview of issues central to testing and assessment of psychological constructs, including types of evaluation instruments currently in use in the field, their applications, and design. Prerequisites: Requires pre-requisite course of PSYC 1001 & PSYC 3101 with grade of C- or better.

College of Arts & Sciences | Psychology | Clinical

PSYC-5423 (3) Research Problems in Clinical Psychology

Examines research issues relevant to the field of clinical psychology and mental health for the purpose of developing familiarity with substantive and methodological problems facing the field. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

College of Arts & Sciences | Psychology | Clinical

PSYC-5433 (3) Adult Psychopathology

Intensively surveys major theories, research findings, and behavioral characteristics associated with deviant reaction patterns. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

PSYC-5453 (3) Developmental Psychopathology

Prereq., instructor consent. Restricted to graduate psychology majors. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-6603 (1) Professional Issues in Clinical Psychology

Covers a range of topics important for professional development in clinical psychology, including preparation and delivery of research presentations, preparation of grant proposals/manuscripts and practicum experience (i.e., interviewing and assessment, treatment planning, intervention and documentation). Intended to prepare students for careers as research scientists and clinicians. May be repeated up to 6 total credit hours. Instructor permission required. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-7663 (1) Intellectual Assessment Laboratory

Practice administration of common intellectual tests. Prereq., instructor consent. Coreq., PSYC 7683. Restricted to clinical psychology graduate students. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-7673 (3) Adult Psychotherapy

Discusses selected topics in the field of psychotherapy, including content consideration and pertinent research. Topics vary from semester to semester. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

PSYC-7683 (1-3) Intellectual Assessment, with Practicum, in Clinical Psychology

Focuses on administering and interpreting objective test results commonly used in clinical psychology practice. Probable inventories used are MMPI, SCII, WISC, WAIS, plus other objective measures where relevant. Includes case study approach and direct clinical experience. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

College of Arts & Sciences | Psychology | Clinical

PSYC-7693 (3) Personality Measurement

Covers theory and practice primarily in areas of individual personality testing. Involves intensive field work and report writing. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

PSYC-7703 (3) Seminar: Clinical Psychology

Offers selected topics in the area of clinical psychology. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-7713 (1-3) Practicum in Clinical Psychology

Provides direct clinical experience for Phd candidates in clinical psychology only. May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

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NRSC-2100 (4) Introduction to Neuroscience

Provides an introduction to fundamental concepts in neuroscience. The goal of this first course is to provide a strong foundation in neurobiology--cell biology, physiology of the neuronal membrane, interneuronal communication, neurotransmission, gross anatomy, and how the brain develops. Students will also learn principles of sensory systems functions. The recitation will introduce students to neuronal computational modeling. Prereqs., MCDB 1150 and 1151, or EBIO 1210 and 1230. Fulfills PSYC 2012 requirement for Psychology majors. Prerequisites: Restricted to students with 27-86 credits (Sophomores or Juniors).

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NRSC-2101 (1-4) Topics in Neuroscience

Provides students with the opportunity to focus on a specific area of Neuroscience in depth. May be repeated up to 6 total credit hours. Prereq., instructor consent.

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PSYC-2145 (3) Introductory Cognitive Psychology

Introduces the study of cognitive processes of human beings: sensation, perception, attention, pattern recognition, memory, learning, language, visual thought, reasoning, problem solving, and decision making. Discusses applications to education, human factors, human computer interaction, law, and other areas of psychology. Prereq., PSYC 1001.

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PSYC-2606 (3) Social Psychology

Covers general psychological principles underlying social behavior. Analyzes major social psychological theories, methods, and topics, including attitudes, conformity, aggression, attraction, social perception, helping behavior, and group relations. Prereq., PSYC 1001. Credit not granted for this course and PSYC 4406. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

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PSYC-2643 (3) Child and Adolescent Psychology

Surveys major psychological processes of childhood and adolescence. Prereq., PSYC 1001.

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PSYC-2700 (3) Psychology of Contemporary American Women

Surveys psychological theory and research concerning contemporary American women. Deals with such issues as masculine bias in American culture, sex difference in cognitive functioning and personality, psychological conflict for women between career and home, and specific areas pertaining to women's mental health. Prereq., PSYC 1001 or WMST 2000. Same as WMST 2700. Approved for arts and sciences core curriculum: human diversity.

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PSYC-3001 (4) Honors Research Methods Seminar

Focuses on research design. Each student prepares an original, detailed research proposal, which can become the honors thesis. Open only to students who have been accepted into the psychology departmental honors program. Prereq., instructor consent.

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PSYC-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and CSCI 3702.

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PSYC-3101 (4) Statistics and Research Methods in Psychology

Three hours of lecture and one two-hour lab per week. Introduces descriptive and inferential statistics and their roles in psychological research. Topics include correlation, regression, T-test, analysis of variance, and selected nonparametric statistics. Prereqs., MATH 1011 or MATH 1150, 1300, or 1081. Prerequisites: Requires pre-requisite class of MATH 1011 or MATH 1150 or MATH 1300 or MATH 1081.

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PSYC-3102 (3) Behavioral Genetics

Inheritance of behavioral characteristics. Prereq., PSYC 3101.

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PSYC-3105 (3) Experimental Methods in Psychology

Provides an introduction to the use of experimental procedures in psychology. Students learn about the logic and design of experiments, the meaning of psychological data, how to analyze and interpret data, and the role of theory in psychology. Prereqs., Psyc 1001 and 3101. Recommended prereq., Psyc 2145.

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PSYC-3313 (4) Psychopathology

Three hours lec. and two hours rec. per week. Analyzes major theories of personality and behavioral disorders. Restricted to junior and senior PSYC majors. Prereq. PSYC 1001 or instructor consent. Credit not granted for this course and PSYC 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

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PSYC-4001 (3) Honors Seminar 2

Surveys contemporary issues, explores current controversies, and examines in detail selected topics in psychology. Open to juniors and seniors in the department's honors program. Prereq., instructor consent.

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NRSC-4011 (1-6) Senior Thesis and Research and Ethics

Perform neuroscience related empirical research and analysis. Training emphasizes the development of critical thinking skills specific to dealing with ethical dilemmas and the responsible conduct of research. Issues related to animal and human research are covered. Prereq., instructor consent.

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PSYC-4011 (1-6) Senior Thesis

Critically reviews some aspect of psychological literature, scholarly analysis of a major psychological issue, and/or empirical research project. See the psychology honors director for further information. May be repeated up to 6 total credit hours.

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NRSC-4015 (3) Affective Neuroscience

Experiencing and learning from affect--emotional value--is a fundamental part of the human experience. When people started thinking of brains as computers, research on emotion fell by the wayside. Recently however, this has changed, and there is an explosion of work on the brain mechanisms of affective value. We will cover recent advances in understanding the emotional brain. Prereqs. for NRSC 4015 are PSYC 2012 or NRSC 2100 or instructor permission, and junior or senior standing. NRSC 4015 and 5015 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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PSYC-4021 (3) Psychology and Neuroscience of Exercise

Integrative course exploring the social, cognitive, neuroscience and physiological aspects of exercise as it relates to mental health. Examines how psychological and neuroscience research have been used to study how participation in regular physical activity affects mental health and how psychological variables influence participation in, adherence to, enjoyment of, and performance in sports and exercise. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 2012, 2145 and 2606. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

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NRSC-4032 (3) Neurobiology of Learning and Memory

Provides a comprehensive treatment of how the brain acquires, stores, and retrieves memories. To do this we will consider (a) the methods used to address these issues, (b) what we know about how brain systems are organized to support memories of different types, and (c) the synaptic mechanisms that are involved. Prereqs., PSYC 2012 or 4052, or IPHY 3730, or NRSC 2100 or 4052, or instructor consent. Restricted to juniors and seniors. Same as NRSC 5032. Formerly PSYC 4032 Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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NRSC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

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PSYC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

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PSYC-4062 (3) The Neurobiology of Stress

Provides an introduction to the concept of stress and the physiological systems involved. Factors modulating stress vulnerability versus resilience, and stress interactions with other systems with health relevance will be explored. Emphasis will be placed on current research on brain mechanisms. A strong foundation and interest in biological psychology, neuroscience, and physiology is recommended. Prereqs., PSYC 2012 or NRSC 2100 or instructor consent. Prerequisites: Requires pre-requisite course of PSYC 2012 or NRSC 2100 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior).

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NRSC-4072 (3) Clinical Neuroscience: A Clinical and Pathological Perspective

Provides basic science background for understanding the mechanism of behavioral disturbances resulting from brain damage. Emphasizes pathological neuroanatomy, neurophysiology, and neuropharmacology, which is essential for understanding problems related to health and disease. Prereqs., PSYC 2012 or NRSC 2100 and one of the following sequences of courses: EBIO 1210 and 1220, MCDB 1150 and 2150, or MCDB 1150 and EBIO 1220. Same as NRSC 5072. Formerly PSYC 4072.

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NRSC-4092 (3) Behavioral Neuroendocrinology

Provides an introduction to neuroendocrinology with a focus on the interaction between hormones and brain function. Prereqs., PSYC 2012 or NRSC 2100 or instructor consent. Same as NRSC 5092. Formerly PSCY 4092. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology

PSYC-4114 (3) Educational Psychology and Adolescent Development

Examines the principles of educational and adolescent psychology and development that play a significant role in analyzing and understanding the complex processes in middle and secondary school classrooms. Course has both theoretical and practical dimensions. Same as EDUC 4112.

College of Arts & Sciences | Psychology | Developmental

NRSC-4132 (3) Neuropharmacology

Neuropharmacology is the study of drug action within the central nervous system. This course is designed to provide a fundamental understanding of the biochemical basis of drug action at the cellular level. Topics covered include the following: 1) principles of pharmacology; 2) brain neurotransmitter systems; 3) addiction and the mechanisms of psychoactive action; 4) biochemical basis of psychiatric disorders and their pharmacological treatment. Prereqs., PSYC 2012 or NRSC 2100 and CHEM 1133. Formerly PSYC 4132. Same as NRSC 5132.

College of Arts & Sciences | Psychology

PSYC-4136 (4) Judgment and Decision Making

One lab, three lectures per week. Introduces the study of judgment and decision making processes (estimation, prediction and diagnosis, choice under certainty, and risky decision making) and the methods that have been developed to improve these processes (statistical modeling, decision analysis, and expert systems). Prereqs., PSYC 1001, 2606 and 3101. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Social

PSYC-4142 (3) Brain Injury, Plasticity and Recovery: From Neuron to Behavior

Traumatic brain injury is prevalent in all aspects of society, with incidence rates varying according to age, gender, military affiliation and participation in certain sports. The course will delve into the full spectrum of consequences following injury, beginning with the individual neural cells in the brain through to the behaving individual. It will also cover strategies to improve functional recovery. Prereq., PSYC 2012 or NRSC 2100. Recommended prereq., PSYC/NRSC 4132. Restricted to junior/seniors or instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Psychology Biological

PSYC-4145 (4) Advanced Cognitive Psychology

Advanced course in human cognitive processes. Focuses on attention pattern recognition. Memory, learning, language, visual thought, reasoning, problem solving, and decision making. Discusses major theories and ideas in terms of the research they have inspired. Emphasis varies with instructor. One lab per week; research project required. Prereqs., PSYC 1001, 2145, and 3101. Same as PSYC 5145. Prerequisites: Requires pre-requisite classes of PSYC 1001, 2145, and 3101.

College of Arts & Sciences Psychology Experimental

NRSC-4155 (4) Cognitive Neuroscience/Neuropsychology

An introduction to cognitive neuroscience and neuropsychology. Provides a survey of the neuropsychological underpinnings for a wide range of cognitive functions: motor control, object recognition, spatial processing, attention, language, memory and emotion. One lab, three lectures per week. Prereqs., PSYC 1001, 2012 or NRSC 2100, PSYC 3101 or MATH 2510 or MATH 2520 or IPHY 2800 or APPM 1710 or APPM 2750 or CHEN 3010 or CHEN 3130 or ECON 3818. Same as PSYC 4155.

College of Arts & Sciences Psychology

PSYC-4155 (4) Cognitive Neuroscience/Neuropsychology

An introduction to cognitive neuroscience and neuropsychology. Provides a survey of the neuropsychological underpinnings for a wide range of cognitive functions: motor control, object recognition, spatial processing, attention, language, memory and emotion. One lab, three lectures per week. Prereqs., PSYC 1001, 2012 or NRSC 2100, PSYC 3101 or MATH 2510 or MATH 2520 or IPHY 2800 or APPM 1710 or APPM 2750 or CHEN 3010 or CHEN 3130 or ECON 3818. Same as NRSC 4155.

College of Arts & Sciences Psychology Experimental

PSYC-4165 (4) Psychology of Perception

One lab, three lect. per week. Analyzes peripheral and central mechanisms involved in the transduction and interpretation of experience. Gives special attention to vision and audition; major theories in these areas are discussed in terms of research they have inspired. Prereqs., PSYC 1001 and 3101.

College of Arts & Sciences | Psychology | Experimental

PSYC-4175 (4) Computational Cognitive Neuroscience

Introduction to cognitive neuroscience (how the brain gives rise to thought) using computer simulations based on the neural networks of the brain. Covers a full range of cognitive phenomena including perception and attention, learning and memory, language, and higher-level cognition based on both large-scale cortical neuroanatomy and detailed properties of cortical neural networks. One lab per week. Recommended only for students with a strong interest in the topic, as it requires a combination of computer modeling, neuroscience and cognition. Prereq., PSYC 1001, 2012, 2145, and 3101. Same as PSYC 5175. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Experimental

PSYC-4220 (3) Language and Mind

Studies processes of perceiving speech, interpreting it as meaningful, and expressing intentions to communicate as utterances. Emphasizes roles of the brain and of perceptual and motor systems. Writing, gestural, and animal communicative systems also are treated. Prereqs., PSYC 1001 and LING 2000. Same as LING 4220.

College of Arts & Sciences | Psychology

PSYC-4303 (3) Abnormal Psychology

Examines borderline disorders as extreme variations of the normal personality. Focuses on major functional and organic disorders, theories of mental disorders, and methods of psychotherapy. Prereq., PSYC 1001. Credit not granted for this course and PSYC 3313.

College of Arts & Sciences | Psychology | Clinical

PSYC-4376 (4) Research Methods in Social Psychology

Designed primarily for psychology majors interested in learning about research methodology. Topics include research design, data collection and data analysis, and written research reports. Prereqs., PSYC 1001, 2606, and 3101. Prerequisites: Requires pre-requisite classes of PSYC 1001, 2606, and 3101. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Social

PSYC-4385 (3) Ethology and Comparative Psychology

Discusses behavior of representative members of each animal phylum. Emphasizes ontogeny of behavior as well as phylogeny. Prereq., PSYC 1001 or EBIO 1210. Same as PSYC 5385.

College of Arts & Sciences | Psychology | Experimental

PSYC-4443 (4) Research Methods in Clinical Psychology

Learn to evaluate research methods as they relate to etiology, assessment, and intervention of psychological disorders. Emphasizes the importance of using sound methodological strategies in both research and clinical settings. Three lectures, one lab per week. Prereqs., PSYC1001, 3101, and 3313 or 4303. Prerequisites: Requires pre-requisite classes of PSYC 1001, PSYC 3101, and either PSYC 3313 or 4303. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Clinical

PSYC-4456 (3) Psychology of Personality

Offers a psychological study of structure, organization, and development of the person as a whole. Analysis of major theories, methods, and research, including topics such as emotion, motivation, temperament, inner experience, identity and the self, personality change, and the influence of sociocultural context.

College of Arts & Sciences Psychology Social

PSYC-4511 (3) History of Psychology

Includes outline of development of psychological theories since the Greek philosophers, the story of experimental psychology and its problems, and schools of psychological thinking. Students read original sources in English and English translations.

College of Arts & Sciences Psychology General

PSYC-4521 (3) Critical Thinking in Psychology

Allows students to expand their powers as they think about psychological problems, or about how psychological knowledge and techniques can be applied to pressing political, economic, biological, quantitative, and social issues. Encourages intellectual discipline and critical thinking about concepts and ideas; enables students to participate in oral and written discussion. May not be repeated, only 3 credit hours allowed. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Psychology (PSCY)majors only.

College of Arts & Sciences Psychology General

PSYC-4541 (3) Special Topics in Psychology

Studies and analyzes special interest topics from the broad and diversified field of psychology. Particular section content is determined by instructor. May be repeated up to 9 total credit hours, provided the topics vary. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Same as PSYC 5541. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology General

PSYC-4543 (3) Clinical Neuropsychological Disorders

Neuropsychological disorders are behavioral and cognitive expressions of underlying brain diseases or injury. The course will provide in-depth coverage from clinical perspectives of wide range of disorders caused by stroke, traumatic brain injury, degenerative diseases, and inflammatory diseases. Students will learn the various neurologic, neuroimaging and neuropsychological methods for assessing and diagnosing these disorders and will review specific illustrative cases. Recommended prereqs., PSYC 3313 or 4303. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Psychology Clinical

NRSC-4545 (3) Neurobiology of Addiction

Covers an intensive survey and synthesis of recent findings contributing to our understanding of the neurobiological basis of addiction. Analysis of both drug and behavioral addictions will be made at the molecular, cellular and neurocircuitry levels and synthesized into models utilizing common themes between various addictions and contributing pathologies. Prereq., PSYC 4132 or NRSC 4132. NRSC 4545 and 5545 are the same course. Prerequisites: Requires pre-requisite course of PSYC 4132 & NRSC 4132 with grade of C- or better.

College of Arts & Sciences Psychology

PSYC-4553 (3) Women's Mental Health: A Biopsychosocial Approach

Examines women's mental health risks as they occur over the life span, from adolescence through menopause, and helps students develop a multi-dimensional understanding of factors contributing to the higher prevalence of women's mental health disorders, including social, neurobiological, cultural, developmental, reproductive, behavioral, cognitive and emotional factors. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 3313 or 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Clinical

PSYC-4560 (3) Language Development

Examines the development of language in childhood and into adult life, emphasizing the role of environment and biological endowment in learning to communicate with words, sentences, and narratives. Restricted to Psychology majors only. Prereqs. or coreqs., PSYC 1001 and LING 2000. Same as LING 4560 and SLHS 4560. Prerequisites: Restricted to Psychology majors only.

College of Arts & Sciences Psychology

PSYC-4606 (3) Advanced Topics in Social Psychology

In-depth study of selected topics in social psychology. Particular section content each semester is determined by the instructor. May be repeated for a maximum of 6 credit hours, provided the topics vary. Prereqs., PSYC 1001, 2606 and 3101. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Social

PSYC-4684 (3) Developmental Psychology

In-depth consideration of human developmental processes across the life span. Includes coverage of the major topics in human development, such as physical, cognitive, social, and personality development. Prereq., PSYC 1001.

College of Arts & Sciences Psychology Developmental

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PSYC-4713 (3) Survey of Clinical Psychology

Covers theories and practices relating to problems of ability and maladjustment. Diagnostic procedures and treatment methods with children and adults. Prereq., PSYC 3313 or 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences | Psychology | Clinical

PSYC-4733 (4) Psychological Testing and Assessment

Provides an overview of issues central to testing and assessment of psychological constructs, including types of evaluation instruments currently in use in the field, their applications, and design. Prerequisites: Requires pre-requisite course of PSYC 1001 & PSYC 3101 with grade of C- or better.

College of Arts & Sciences | Psychology | Clinical

PSYC-4740 (3) Biology of Amphibians and Reptiles

Focuses on comparative morphology, taxonomy, ecology, behavior, and geographic distribution of amphibians and reptiles. Prereqs., EBIO 1210, 1220, 1230, and 1240; or PSYC 1001, 2012. Same as PSYC 5740 and EBIO 4740.

College of Arts & Sciences | Psychology

NRSC-4841 (1-3) Independent Study in Neuroscience

May be repeated up to 8 total credit hours. Restricted to students with 57-180 credits (Junior or Senior) Neuroscience (NRSC) majors only. Pass/Fail only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Neuroscience (NRSC) majors only.

College of Arts & Sciences Psychology

PSYC-4841 (1-6) Independent Study (Upper Division)

Pass/fail only. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology General

NRSC-4911 (3) Teaching of Neuroscience

This course offers a rich experience for students to develop and organize curriculum to complement the Neuroscience core courses. This course offers a valuable teaching experience utilizing computational modeling to simulate experimental results. Any Neuroscience curriculum course, such as Intro to Neuroscience I or II, Neuropharmacology, Neurobiology of Learning and Memory or Behavioral Neuroscience may be appropriate with instructor consent. NRSC 4911 and 5911 are the same course.

College of Arts & Sciences Psychology

PSYC-4911 (3) Teaching of Psychology

Students receive concrete experience in teaching general psychology under supervision of a psychology faculty member. Alternative pedagogical strategies are discussed. Students must submit an application to the undergraduate advising center.

College of Arts & Sciences Psychology General

PSYC-4931 (3) Field Placement Internship

Offers valuable volunteer experience through a supervised field placement. Provides hands-on insight into the decisions and issues that confront professionals in psychology and related fields. Prereqs., completion of 15 or more hours of psychology course work. Restricted to psychology majors. Prerequisites: Restricted to Psychology majors only.

College of Arts & Sciences Psychology General

NRSC-5015 (3) Affective Neuroscience

Experiencing and learning from affect--emotional value--is a fundamental part of the human experience. When people started thinking of brains as computers, research on emotion fell by the wayside. Recently however, this has changed, and there is an explosion of work on the brain mechanisms of affective value. We will cover recent advances in understanding the emotional brain. Prereqs. for NRSC 4015 are PSYC 2012 or NRSC 2100 or instructor permission, and junior or senior standing. NRSC 4015 and 5015 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5032 (3) Neurobiology of Learning and Memory

Same as NRSC 4032. Formerly PSYC 5032 Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

NRSC-5052 (4) Behavioral Neuroscience

PSYC 5052 and NRSC 5052 are the same course. Same as PSYC/NRSC 4052. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

PSYC-5052 (4) Behavioral Neuroscience

PSYC 5052 and NRSC 5052 are the same course. Same as PSYC/NRSC 4052.

College of Arts & Sciences | Psychology | Biological

NRSC-5072 (3) Clinical Neuroscience

Same as NRSC 4072. Formerly PSYC 5072. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

PSYC-5082 (2-3) Seminar: Biological Psychology

Special topics concerning biological bases of behavior. Prereqs., PSYC 4052 and instructor consent.

College of Arts & Sciences | Psychology | Biological

NRSC-5092 (4) Behavioral Neuroendocrinology

Same as NRSC 4092. Formerly PSYC 5092. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

NRSC-5100 (2-5) Introduction to Neuroscience I

Provides an intensive introduction to the principles of neuroscience, initially covering the detailed neuroanatomy of human forebrain, hindbrain, and spinal cord. This is followed by neurophysiology

with a concentration on the electrophysiology of neural systems. The basics of neuroanatomy and neurophysiology with a concentration on the electrophysiology are then applied to an examination of the structure and function of visual, auditory, and sensorimotor systems in animal and man. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

PSYC-5102 (2) Behavioral Genetics

Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Biological

NRSC-5110 (3) Introduction to Neuroscience II

Provides an intensive interdisciplinary introduction to the principles of neuroscience. It is a sequel to NRSC 5100. Provides a detailed overview of neurochemistry, neurodevelopment, neuromotor control, neurogenetics, and cognitive neuroscience. Prereq., NRSC 5100.

College of Arts & Sciences | Psychology

PSYC-5112 (3) Concepts in Behavioral Genetics

Examines selected topics in greater detail than is possible in the comprehensive undergraduate course in behavioral genetics (PSYC 3102). Topics covered may include inheritance of behavioral characteristics from perspectives of pharmacogenetics, transmission genetics, biochemical genetics, and evolutionary genetics. May be repeated up to 9 total credit hours. Instructor consent required.

College of Arts & Sciences | Psychology | Biological

PSYC-5122 (3) Quantitative Genetics

Surveys principles of genetics of quantitative characteristics. Topics include gene frequencies, effects of mutation, migration, and selection. Also looks at correlations among relatives, heritability, inbreeding, crossbreeding, and selective breeding.

College of Arts & Sciences | Psychology | Biological

NRSC-5132 (3) Neuropharmacology

May be repeated up to 6 total credit hours. Formerly PSYC 5132. Same as NRSC 4132. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

PSYC-5145 (4) Advanced Cognitive Psychology

Instructor consent required. Same as PSYC 4145. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-5175 (4) Computational Cognitive Neuroscience

Instructor consent required. Same as PSYC 4175. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-5200 (3) Physiological Genetics and Genomics

Introduces genetic and genomic concepts as they apply to mammalian physiology. The course covers fundamental concepts and methods in molecular genetics and genomics and their applications towards understanding the role of genetics in the normal and pathological function of physiological systems. Same as IPHY 5200.

College of Arts & Sciences | Psychology

PSYC-5232 (2) Molecular Genetics and Physiology

Covers fundamental mechanisms of gene action, including genome structure and regulation of gene expression. Discusses molecular techniques used to examine human genetic diseases. Emphasizes genetic diseases with behavioral, neurologic, and physiologic abnormalities. Prereq., IPHY/PSYC 5200 or instructor consent. Same as IPHY 5232.

College of Arts & Sciences | Psychology | Biological



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PSYC-5242 (3) Biometrical Methods in Behavioral Genetics

Studies development of structural models appropriate to behavioral genetics and the estimation procedures necessary for their application. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Psychology](#)
[Biological](#)

PSYC-5262 (3) Mammalian Neuroanatomy

Covers microscopic anatomy and function of different brain regions. Emphasizes correlation between structure and function, particularly at cellular and synaptic level. Course includes brain dissection, description of neuroanatomical and neurohistological techniques, and an introduction to the ultrastructure of neurons. Prereqs., PSYC 4052 or NRSC 4052 or MCDB 4190, and instructor consent.

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PSYC-5385 (3) Ethology and Comparative Psychology

Prereq., instructor consent. Same as Psc 4385.

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PSYC-5423 (3) Research Problems in Clinical Psychology

Examines research issues relevant to the field of clinical psychology and mental health for the purpose of developing familiarity with substantive and methodological problems facing the field.

Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

PSYC-5433 (3) Adult Psychopathology

Intensively surveys major theories, research findings, and behavioral characteristics associated with deviant reaction patterns. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

PSYC-5453 (3) Developmental Psychopathology

Prereq., instructor consent. Restricted to graduate psychology majors. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-5541 (1-6) Special Topics in Psychology

Same as PSYC 4541. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | General

NRSC-5545 (3) Neurobiology of Addiction

Covers an intensive survey and synthesis of recent findings contributing to our understanding of the neurobiological basis of addiction. Analysis of both drug and behavioral addictions will be made at the molecular, cellular and neurocircuitry levels and synthesized into models utilizing common themes between various addictions and contributing pathologies. Prereq., PSYC 4132 or NRSC 4132. NRSC 4545 and 5545 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology

PSYC-5606 (3) Proseminar: Social-Personality Psychology

Provides a thorough introduction to methods and theories in social psychology concerned with topics such as the self, social cognition, judgment and decision making, attitude formation and change, small group processes, inter-group relations, health and social psychology, and others. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Social

PSYC-5665 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey to topics in experimental psychology. General areas are higher-level cognition, attention, and learning and memory. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-5685 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey of topics in experimental psychology. General areas are research methods in cognitive psychology, and low-level perception. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-5695 (2) Proseminar: Memory

Provides beginning Ph.D. students with a basic introduction to (primarily human) memory research. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives on memory. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-5740 (3) Biology of Amphibians and Reptiles

Same as PSYC 4740, EBIO 5740.

College of Arts & Sciences | Psychology

PSYC-5741 (4) General Statistics

Surveys probability and statistics in psychology. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | General

PSYC-5751 (4) General Statistics

Continuation of PSYC 5741. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | General

PSYC-5761 (3) Structural Equation Modeling

Provides training in the use of structural equation modeling, a class of analytic techniques that include the estimation of unobserved, or latent, constructs and an estimation of relationships among

latent constructs. Prereqs., PSYC 5741 and 5751. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology General

PSYC-5815 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey of topics in experimental psychology. General areas are language and high-level thinking. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Psychology Experimental

PSYC-5825 (2) Proseminar: Executive Function

Provides beginning Ph.D. students with basic introduction to research on executive functions -- a set of general-purpose control processes regulate one's thoughts and behaviors. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives on executive function. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5835 (2) Proseminar: Thinking

Provides beginning Ph.D. students with a basic introduction to research on complex human cognition. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

NRSC-5911 (3) Teaching of Neuroscience

This course offers a rich experience for students to develop and organize curriculum to complement the Neuroscience core courses. This course offers a valuable teaching experience utilizing computational modeling to simulate experimental results. Any Neuroscience curriculum course, such as Intro to Neuroscience I or II, Neuropharmacology, Neurobiology of Learning and Memory or Behavioral Neuroscience may be appropriate with instructor consent. NRSC 4911 and 5911 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-6100 (2) Advances in Neuroscience Seminar

Designed for beginning graduate students interested in neuroscience. Students read, discuss, and evaluate the primary literature on a number of current topics in neuroscience as well as attend the seminar program in neuroscience. May be repeated up to 8 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

PSYC-6200 (3) Issues and Methods in Cognitive Science

Same as CSCI 6402, EDUC 6504, LING 6200, PHIL 6310. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

PSYC-6603 (1) Professional Issues in Clinical Psychology

Covers a range of topics important for professional development in clinical psychology, including preparation and delivery of research presentations, preparation of grant proposals/manuscripts and practicum experience (i.e., interviewing and assessment, treatment planning, intervention and documentation). Intended to prepare students for careers as research scientists and clinicians. May be repeated up to 6 total credit hours. Instructor permission required. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-6606 (1) Professional Issues in Social Psychology

Covers a range of topics important for professional development in social psychology, including preparation and delivery of research presentations, preparation of grant proposals and manuscripts, and peer review of manuscripts. Intended to prepare students for careers as research scientists. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

PSYC-6841 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing.

College of Arts & Sciences Psychology General

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PSYC-6911 (1-3) Research Practicum

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PSYC-6941 (1) Master's Degree Candidate

May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#)
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PSYC-6951 (1-6) Master's Thesis

May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#)
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PSYC-7012 (1-3) Research in Behavioral Genetics

Individual research projects. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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College of Arts & Sciences Psychology Biological

NRSC-7102 (2-3) Topics in Neuroscience

Advanced seminar dealing with different specialized topics in neuroscience. Restricted to Graduate Students only. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

PSYC-7102 (2) Seminar: Behavioral Genetics

Intensive study of selected topics in behavioral genetics. Emphasizes recent research. Attention to both human and animal studies. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Biological

NRSC-7112 (3) Special Topics in Neuroscience I

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7122 (3) Special Topics in Neuroscience II

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7132 (3) Special Topics in Neuroscience III

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7142 (3) Special Topics in Neuroscience IV

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7152 (3) Special Topics in Neuroscience V

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences | Psychology

PSYC-7215 (3) Seminar: Experimental Psychology

Advanced seminar dealing with different specialized topics, at the discretion of the instructor, in different years. Topics chosen are within the broad range of experimental psychology. Instructor consent required. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-7291 (3) Multivariate Analysis

Familiarizes students with scientific concepts, matrix theory, and computer techniques of multivariate analyses for psychological research. Topics include cluster and factor analysis, multiple regression, and discriminant functions. Emphasizes research technology rather than mathematical theory. Instructor consent required.

College of Arts & Sciences | Psychology | General

PSYC-7315 (2) Advanced Research Seminar on Human Memory

Addresses topics in the experimental psychology of human memory. Content varies from semester to semester, depending on interests of faculty and students. A sample topic is the long-term retention of skills. Prereq., graduate standing in psychology or related disciplines.

College of Arts & Sciences | Psychology | Experimental

PSYC-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as LING 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

PSYC-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects

integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as LING 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-7536 (3) Personality and Social Psychology

Selected topics in the area of social-personality psychology. Students may register for more than one section of this course within the term and/or within their graduate career. These seminars may be on one of the following topics: stereotyping and person perception, social psychology and self, social psychology of problem behavior, health and social psychology, race and ethnic identity, or groups and small group organization. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

PSYC-7663 (1) Intellectual Assessment Laboratory

Practice administration of common intellectual tests. Prereq., instructor consent. Coreq., PSYC 7683. Restricted to clinical psychology graduate students. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-7673 (3) Adult Psychotherapy

Discusses selected topics in the field of psychotherapy, including content consideration and pertinent research. Topics vary from semester to semester. Prereq., instructor consent.

College of Arts & Sciences Psychology Clinical

PSYC-7683 (1-3) Intellectual Assessment, with Practicum, in Clinical Psychology

Focuses on administering and interpreting objective test results commonly used in clinical psychology practice. Probable inventories used are MMPI, SCII, WISC, WAIS, plus other objective measures where relevant. Includes case study approach and direct clinical experience. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-7693 (3) Personality Measurement

Covers theory and practice primarily in areas of individual personality testing. Involves intensive field work and report writing. Prereq., instructor consent.

College of Arts & Sciences Psychology Clinical

PSYC-7703 (3) Seminar: Clinical Psychology

Offers selected topics in the area of clinical psychology. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-7713 (1-3) Practicum in Clinical Psychology

Provides direct clinical experience for Phd candidates in clinical psychology only. May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

PSYC-7765 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint PhD in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and LING 7762.

College of Arts & Sciences | Psychology | Experimental

PSYC-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the LCS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in LCS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810.

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PSYC-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PSYC-4511 (3) History of Psychology

Includes outline of development of psychological theories since the Greek philosophers, the story of experimental psychology and its problems, and schools of psychological thinking. Students read original sources in English and English translations.

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PSYC-4521 (3) Critical Thinking in Psychology

Allows students to expand their powers as they think about psychological problems, or about how psychological knowledge and techniques can be applied to pressing political, economic, biological, quantitative, and social issues. Encourages intellectual discipline and critical thinking about concepts and ideas; enables students to participate in oral and written discussion. May not be repeated, only 3 credit hours allowed. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Psychology (PSCY) majors only.

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PSYC-4541 (3) Special Topics in Psychology

Studies and analyzes special interest topics from the broad and diversified field of psychology. Particular section content is determined by instructor. May be repeated up to 9 total credit hours, provided the topics vary. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Same as PSYC 5541. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

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PSYC-4841 (1-6) Independent Study (Upper Division)

Pass/fail only. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

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PSYC-4911 (3) Teaching of Psychology

Students receive concrete experience in teaching general psychology under supervision of a psychology faculty member. Alternative pedagogical strategies are discussed. Students must submit an application to the undergraduate advising center.

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PSYC-4931 (3) Field Placement Internship

Offers valuable volunteer experience through a supervised field placement. Provides hands-on insight into the decisions and issues that confront professionals in psychology and related fields. Prereqs., completion of 15 or more hours of psychology course work. Restricted to psychology majors. Prerequisites: Restricted to Psychology majors only.

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PSYC-5541 (1-6) Special Topics in Psychology

Same as PSYC 4541. Prerequisites: Restricted to Graduate Students only.

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PSYC-5741 (4) General Statistics

Surveys probability and statistics in psychology. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

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PSYC-5751 (4) General Statistics

Continuation of PSYC 5741. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

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PSYC-5761 (3) Structural Equation Modeling

Provides training in the use of structural equation modeling, a class of analytic techniques that include the estimation of unobserved, or latent, constructs and an estimation of relationships among latent constructs. Prereqs., PSYC 5741 and 5751. Prerequisites: Restricted to Graduate Students only.

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PSYC-6841 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing.

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PSYC-6911 (1-3) Research Practicum

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PSYC-6941 (1) Master's Degree Candidate

May be repeated up to 7 total credit hours.

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PSYC-6951 (1-6) Master's Thesis

May be repeated up to 7 total credit hours.

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PSYC-7291 (3) Multivariate Analysis

Familiarizes students with scientific concepts, matrix theory, and computer techniques of multivariate analyses for psychological research. Topics include cluster and factor analysis, multiple regression, and discriminant functions. Emphasizes research technology rather than mathematical theory. Instructor consent required.

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PSYC-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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SOCY-1004 (3) Deviance in U.S. Society

Examines the social construction of deviance in the U.S., the process of acquiring a deviant identity and managing deviant stigma, and the social organization of deviant act, lifestyles, relationships and careers. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
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SOCY-2034 (3) Drugs in United States Society

Examines the relationship between drugs and social contexts. Lends insight into why people find consciousness alteration meaningful, what kinds of experiences and problems arise, and what types of social policies emerge to control drug use.

[College of Arts & Sciences](#)
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[Deviance and Criminology](#)

SOCY-2044 (3) Crime and Society

Explores issues related to crime, the criminal justice system, and crime-related public policy. It addresses what we know about crime and how we know it, how our society responds to crime, and how the institutions designed to address crime (police, courts, corrections) function.

[College of Arts & Sciences](#)
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SOCY-3034 (3) Perspectives on Violence

What counts as violence? Who decides what is violence and what is not? In what contexts does violence occur? This course critically examines different criminological and social science perspectives on violence. Prereq., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences students only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-3044 (3) Race, Class, Gender, and Crime

Overview of race, class, gender, and ethnicity issues in offending, victimization, and processing by the justice system. Examines women and people of color employed in the justice system. Prereq., SOCY 1001 or 1004. Same as WMST 3044. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-3314 (3) Violence Against Women and Girls

Focuses on aspects of the victimization of women and girls that are "Gendered" - namely, sexual abuse and intimate partner abuse. Also explores the importance of race, class, and sexuality in gendered violence. Same as WMST 3314.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4004 (3) Advanced Topics in Criminology

Variety of courses in criminology. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001 or 1004. Restricted to junior/senior SOCY majors.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4014 (3) Criminology

Scientific study of criminal behavior with special attention to development of criminal law, definition of crime, causes of law violation, and methods of controlling criminal behavior. Prereq., SOCY 1001 or 1004.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4024 (3) Juvenile Delinquency

Examines the history, incidence and prevalence of delinquent behavior, as well as why children become involved in criminal activity. Prereq., SOCY 1001 or 1004. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4084 (3) Punishment, Law and Society

Places the current state of punishment in the U.S. in historical and cross national context. It examines key features of penal systems, and key sociological theories about the relationship between punishment and society. Prereqs., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-6004 (3) Topics in Criminology

Variety of courses in criminology to be taught by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Formerly SOCY 5004.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7004 (3) Criminological Theory

Examines the major criminological theories of the 18th through 21st centuries in Europe, Australia, and the U.S. Emphasizes the historical contexts and paradigms of knowledge influencing these theories. Prereq., graduate standing. Formerly SOCY 5114.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7014 (3) Patterns of Criminal Behavior

Overview of the epidemiology of crime. Examines patterns of crime (both offending and victimization), and includes a gender, race/ethnicity, and class analysis. Formerly SOCY 5214.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7024 (3) Punishment and Social Control

Exploration of sociological perspectives on the criminal justice process. Considers organization of criminal law responses, including enforcing and sentencing. Race, class, gender, and age differences in treatment and sentencing are analyzed. Prereq., graduate standing. Formerly SOCY 5314. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7034 (3) Capital Punishment in the United States

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty. Prereq., graduate standing. Formerly SOCY 5414.

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SOCY-1006 (3) The Social Construction of Sexuality

Discusses the social determinants of sexuality. Analyzes the economic, psychological, and cultural influences on human sexuality. Interactional perspective of human sexuality is presented. Same as WMST 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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SOCY-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as WMST 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Sociology](#)
[Sex and Gender](#)

SOCY-3016 (3) Marriage and the Family in U.S. Society

Comparative and historical examination of marriage and the family within the U.S. Emphasizes changing family roles and family structures. Also considers alternatives to the nuclear family and traditional marriage exploring new definitions of family. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3016. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#)
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SOCY-3046 (3) Topics in Sex and Gender

Faculty present courses based on their area of expertise and specialization in the field of sex and gender. Students should check current sociology department notices of course offerings for specific topics. Students may receive credit for this course up to three times for different topics. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/ senior SOCY majors. Same as WMST 3046.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-4000 (3) Gender, Genocide, and Mass Trauma

Studies the persistence of genocide and the effects of mass trauma on women and girls. Within the framework of political and social catastrophe, the course examines cataclysmic world events and the traumatic consequences for women of religious persecution, colonialism, slavery, and the genocides of the twentieth and twenty first centuries. Prereq., SOCY 1016 or WMST 2000 or SOCY 3314. SOCY 4000 and WMST 4010 are the same course.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-4016 (3) Sex, Gender, and Society 2

Studies status and power differences between the sexes at individual, group, and societal levels. Examines empirically established sex differences, and reviews biological, psychological, and sociological explanations for gender differences. Prereqs., SOCY 1016 or WMST 2000. Restricted to junior/senior SOCY majors. Same as WMST 4016.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-4086 (3) Family and Society

Studies the changing relationship between family and social structure. Examines variations in family organization and considers political, social, ideological, demographic, and economic determinants of family formation. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 4086.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-6016 (3) Topics in Sex and Gender

Covers diverse specializations of faculty in the area of sex and gender. See current departmental announcements or online Schedule Planner for specific content. May be repeated up to 9 total credit hours for different topics. Formerly SOCY 5016. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7006 (3) Sociology of Sex and Gender

Theoretical and empirical examination of sex stratification, sex role differentiation, and sex differences in socialization, personality, institutions, and culture. Formerly SOCY 5006.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7026 (3) Feminist Research Methods

Epistemological and methodological issues generated by feminist research and students' own projects. Formerly SOCY 5026.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7036 (3) Feminist Theory

Examines the main schools of feminist thought and their impact upon sociological theories. Also examines current feminist theoretical debates and their relevance to feminist sociology. Prereq., graduate standing. Formerly SOCY 5036. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Sex and Gender

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SOCY-1004 (3) Deviance in U.S. Society

Examines the social construction of deviance in the U.S., the process of acquiring a deviant identity and managing deviant stigma, and the social organization of deviant act, lifestyles, relationships and careers. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

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SOCY-1006 (3) The Social Construction of Sexuality

Discusses the social determinants of sexuality. Analyzes the economic, psychological, and cultural influences on human sexuality. Interactional perspective of human sexuality is presented. Same as WMST 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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SOCY-1022 (3) Ethics and Social Issues in U.S. Health and Medicine

Explores current ethical and policy issues in U.S. health and medical practices. Includes such issues as alcohol and drug abuse, organ transplants and substitutes, genetic engineering, contraception, abortion, occupational safety and health, and euthanasia. Approved for arts and sciences core curriculum: ideals and values.

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SOCY-3002 (3) Population and Society

Examines population, its structure and processes, and its relationships to selected areas of the social structure. Examines Malthusian, neo-Malthusian, and Marxist perspectives. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

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SOCY-3012 (3) Women and Development

Investigates the status of women in the context of globalization and social and economic development. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3012. Approved for arts and sciences core curriculum: human diversity.

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SOCY-3042 (3) Topics in Population and Health

A variety of courses in population and/or health will be taught, usually by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001.

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SOCY-4002 (3) Sociology of Aging

Studies present and future roles of the aged in the family, the community, and the larger society. Considers economic, political, and health consequences of various retirement systems. Prereqs., Socy 1001, and Socy 3001 or 3011. Restricted to junior/senior Socy majors.

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SOCY-4042 (3) Economic Sociology

Defines relationship between economy and society; sociological approach to study of economic activity and organization; difference from the theoretical and methodological assumptions orienting the discipline of economics; tackles these questions in two ways: studies foundations as established in works of Smith, Marx, Weber, Polanyi, and Schumpeter, and considers current research in economic sociology, focusing on concepts of markets, networks, and embeddedness. Prereq., SOCY 1001. Restricted to sophomore, junior, senior SOCY majors.

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SOCY-4052 (3) Social Inequalities in Health

Focuses on social inequalities in health in both U.S. and international contexts. Reviews the link between health status and various types of social statuses, including but not limited to socioeconomic status, gender, race, and ethnicity. Explanations for the relationships between these factors and various health outcomes are discussed. The class focuses on multiple levels of analysis, from the physician-patient interactions to health care systems and social policies. Students have the opportunity to develop their own specific research interests in this field. Prereq., SOCY 1001. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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SOCY-6012 (3) Population Issues, Problems, and Policies

Presents contemporary perspectives on relations between population and society. Focuses on mortality, fertility, and migration, the major demographic areas, with reviews of specific demographic phenomena and controversies. Formerly SOCY 5012.

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SOCY-7002 (3) Social Disparities in Health

Presents social disparities in health in their social context. Includes the sociology of health behavior; links between health status and social statuses including gender, race, ethnicity, and

socioeconomic status; fundamental causes and other explanations for social disparities in health; environment and health; health insurance disparities; the physician-patient interaction and its consequences. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-7012 (3) The Social Demography of Race

Introduction to relevant, timely research within sociological and social demographic research on race and ethnicity. Specific areas will include conceptual/measurement issues; population size, growth, and migration; health and mortality; marriage, family, and fertility; socioeconomic context; and policy considerations. Course content will be structured around current empirical pieces in sociology literature with emphasis on methodological approach in analyses.

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SOCY-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as WMST 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

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SOCY-1021 (3) United States Race and Ethnic Relations

An examination of race and minority problems in U.S. society, including the psychological, social, and cultural sources of prejudice and discrimination. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

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SOCY-1022 (3) Ethics and Social Issues in U.S. Health and Medicine

Explores current ethical and policy issues in U.S. health and medical practices. Includes such issues as alcohol and drug abuse, organ transplants and substitutes, genetic engineering, contraception, abortion, occupational safety and health, and euthanasia. Approved for arts and sciences core curriculum: ideals and values.

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SOCY-1841 (1-6) Independent Study in Sociology

May be repeated up to 7 total credit hours.

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SOCY-2011 (3) Contemporary Social Issues and Human Values

Explores contemporary societies on a global scale. Focuses on such issues as capitalism, socialism, race and ethnic problems, sex discrimination, poverty and the concentration of wealth, crime and deviance, human rights and human values, peace and war.

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SOCY-2021 (3) Nonviolence and the Ethics of Social Action

Examines nonviolence as a strategy of social action. Focuses on ethics and dynamics of nonviolent action; racial and economic justice movements; civil disobedience; and conscientious objection to war.

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SOCY-2077 (3) Environment and Society

Examines how both natural and built environments influence human behavior and social organization. Focuses on microenvironments and their influence on individuals; the impact of macroenvironments on societal organization; and environmental movements. Credit not granted for this course and SOCY 3091. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
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SOCY-4007 (3) Global Human Ecology

Examines global environmental issues from sociological perspectives. Focuses on such problems as overpopulation, world hunger and poverty, pollution, resource shortages, environmental impact of technology and population dynamics, public policy, and strategies for change. Credit not granted for this course and SOCY 1002 or SEWL 2000. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4017 (3) Animals and Society

Examines the role of non-human animals in human society. Investigates the social construction of the human/animal boundary. Challenges ideas that animals are neither thinking nor feeling. Examines the many ways humans rely on animals. Considers the link between animal cruelty and other violence. Explores the moral status of animals. Prereq., SOCY 1001.

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SOCY-4027 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between (a) inequality and democratic decision making and (b) undemocratic decision making; U.S. and corporate food and energy policy; and global environmental degradation. The course also focuses on the role that global inequality plays in fostering environmental degradation. Restricted to juniors/seniors. Same as ENVS 4027. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Sociology Environment and Society

SOCY-4037 (3) Hazards, Disasters and Society

Explores the societal dimensions of hazards and disasters, emphasizing disaster theory and research, key issues in the sociological study of disasters, social vulnerability, the impacts of disasters in the U.S. and worldwide, and the U.S. Emergency Management System. Prereq., SOCY 2077. Same as SOCY 5037.

College of Arts & Sciences Sociology Environment and Society

SOCY-4047 (3) Topics in Environment and Society

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. May be repeated up to 9 credit hours for different topics.

College of Arts & Sciences Sociology Environment and Society

SOCY-5037 (3) Hazards, Disasters and Society

Same as SOCY 4037.

College of Arts & Sciences Sociology Environment and Society

SOCY-5937 (1-6) Graduate Research Internship in Environmental Sociology

Offers the opportunity for sociology graduate students specializing in environmental sociology to work with local governmental or non-profit organizations on research assignments. The research topic, academic reading list, and expectations for the final project will be developed collaboratively with a faculty sponsor and organizational representative.

College of Arts & Sciences Sociology Environment and Society

SOCY-6007 (3) Foundations of Environmental Sociology

Provides overview of environmental sociological theory and research including topics such as: public environmental perception, concern, and knowledge; environmentalism as a social movement; environmental justice; energy, technology, and risk; human dimensions of environmental change; and natural hazards and disasters. Same as ENVS 6007. Prerequisites: Restricted to Graduate Students only.

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SOCY-6017 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between a) inequality and democratic decision making and b) undemocratic economic and political decision making, U.S. and corporate food and energy policy; and global environmental degradation. Focus will also be placed on the role that global inequality plays in fostering environmental degradation. Prereq., graduate standing. Formerly SOCY 5137.

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SOCY-7017 (3) Population and Environment

Reviews research on human-environment interactions, with a focus on ways in which demographic processes influence, and are influenced by, the environmental context. Specific topics include conceptual and analytical frameworks; methodologies; intervening factors shaping human dimensions of environmental change; and regionally-focused research. Prereq., graduate standing. Formerly SOCY 5117.

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SOCY-2031 (3) Social Problems

Examines U.S. society from a normative perspective emphasizing theories of social change. Considers such problems as distribution of power, unemployment, poverty, racism and sexism, the changing role of the family, and drugs. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

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SOCY-2034 (3) Drugs in United States Society

Examines the relationship between drugs and social contexts. Lends insight into why people find consciousness alteration meaningful, what kinds of experiences and problems arise, and what types of social policies emerge to control drug use.

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SOCY-2044 (3) Crime and Society

Explores issues related to crime, the criminal justice system, and crime-related public policy. It addresses what we know about crime and how we know it, how our society responds to crime, and how the institutions designed to address crime (police, courts, corrections) function.

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SOCY-2061 (3) Introduction to Social Statistics

Introduces students to quantitative analysis of social phenomena. Emphasizes understanding and proper interpretation of graphs; measures of central tendency, dispersion, and association; and the concept of statistical significance. Assumes students have only limited mathematical background.

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SOCY-2077 (3) Environment and Society

Examines how both natural and built environments influence human behavior and social organization. Focuses on microenvironments and their influence on individuals; the impact of macroenvironments on societal organization; and environmental movements. Credit not granted for this course and SOCY 3091. Approved for arts and sciences core curriculum: ideals and values.

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SOCY-2091 (3) Topics in Sociology

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. Students may receive credit for this course up to three times for different topics.

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SOCY-3001 (3) Classical Theory

In-depth study of classical sociological theorists, particularly Marx, Durkheim, and Weber. Examines their roles in defining the discipline of sociology. Prereq., SOCY 1001. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Sociology (SOCY) majors only.

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SOCY-3002 (3) Population and Society

Examines population, its structure and processes, and its relationships to selected areas of the social structure. Examines Malthusian, neo-Malthusian, and Marxist perspectives. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

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SOCY-3010 (3) Sociology Capstone Course: Professional Writing

Builds on previous coursework in survey or field methods to result in an original, article-length research paper analyzing sociological data. Students will hone their writing skills through in- and -out-of-class writing exercises, and read and analyze models of quantitative and qualitative sociological articles to develop sociological writing skills. Prereq., SOCY 3301 or SOCY 3401. Approved for arts and sciences core curriculum: written communication.

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SOCY-3011 (3) Contemporary Theory

Continuation of SOCY 3001. In-depth study of modern and post-modern theories of the 20th century, including structural-functionalist, conflict, symbolic interactionist, feminist, and world system theories. Prereqs., SOCY 1001 and 3001. Restricted to junior/senior SOCY majors.

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SOCY-3012 (3) Women and Development

Investigates the status of women in the context of globalization and social and economic development. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3012. Approved for arts and sciences core curriculum: human diversity.

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SOCY-3016 (3) Marriage and the Family in U.S. Society

Comparative and historical examination of marriage and the family within the U.S. Emphasizes changing family roles and family structures. Also considers alternatives to the nuclear family and traditional marriage exploring new definitions of family. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3016. Approved for arts and sciences core curriculum: United States context.

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SOCY-3034 (3) Perspectives on Violence

What counts as violence? Who decides what is violence and what is not? In what contexts does violence occur? This course critically examines different criminological and social science perspectives on violence. Prereq., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences students only.

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SOCY-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and 3001 or 3011, or instructor consent. Same as INVS 3041.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3042 (3) Topics in Population and Health

A variety of courses in population and/or health will be taught, usually by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001.

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SOCY-3044 (3) Race, Class, Gender, and Crime

Overview of race, class, gender, and ethnicity issues in offending, victimization, and processing by the justice system. Examines women and people of color employed in the justice system. Prereq., SOCY 1001 or 1004. Same as WMST 3044. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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SOCY-3046 (3) Topics in Sex and Gender

Faculty present courses based on their area of expertise and specialization in the field of sex and gender. Students should check current sociology department notices of course offerings for specific topics. Students may receive credit for this course up to three times for different topics. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/ senior SOCY majors. Same as WMST 3046.

[College of Arts & Sciences](#) [Sociology](#) [Sex and Gender](#)

SOCY-3141 (3) Social Movements in the U.S

Considers theory and research about American social movements. Emphasizes leadership, ideology, recruitment, strategy, organizational dynamics, public response, and reasons for success or failure. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3151 (3) Self in Modern Society

Explores how modern social institutions and culture shape our personal experiences, how personal experiences can affect the nature of those, institutions and culture, and how strategies can be developed for achieving balance between the individual and society. Prereqs., SOCY 1001 and SOCY 3001 3011. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3161 (3) Sociological Perspectives on Race and Ethnicity

Addresses three subtopics of race from a sociological perspective: ethnic and racial identities, immigration, and race and ethnicity in Latin America. Recommended prereq., SOCY 1001.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3171 (3) Whiteness Studies

Uses the conceptual framework of the sociology of race and ethnic relations to explore whiteness as a racial category that is centered and privileged in American society. Investigates the development of whiteness from past white supremacy, current colorblindness, to possible future multiculturalism. Analyzes the consequences of whiteness as a racial identity and a social structure. Prereqs., SOCY 1001 and 1021.

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SOCY-3301 (3) Survey Methods

Teaches quantitative research methods and, particularly, methods of survey research. Topics include sampling, interviewing, schedule construction, data analysis, computer methods, index construction, and statistical analysis. Students participate in a survey project, design, collect data, and prepare a research paper on the basis of collected data. Prereqs., SOCY 1001, 2061, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3314 (3) Violence Against Women and Girls

Focuses on aspects of the victimization of women and girls that are "Gendered" - namely, sexual abuse and intimate partner abuse. Also explores the importance of race, class, and sexuality in gendered violence. Same as WMST 3314.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-3401 (3) Field Methods

Skill development prepares students to conduct qualitative sociological research. Emphasizes ethnographic techniques, including intensive interviewing, direct observation, coding, participant observation, and report writing. Students conceive and execute a field research project with data collection, analysis, and a report. Prereqs., SOCY 1001 and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-4000 (3) Gender, Genocide, and Mass Trauma

Studies the persistence of genocide and the effects of mass trauma on women and girls. Within the framework of political and social catastrophe, the course examines cataclysmic world events and the traumatic consequences for women of religious persecution, colonialism, slavery, and the genocides of the twentieth and twenty first centuries. Prereq., SOCY 1016 or WMST 2000 or SOCY 3314. SOCY 4000 and WMST 4010 are the same course.

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SOCY-4002 (3) Sociology of Aging

Studies present and future roles of the aged in the family, the community, and the larger society. Considers economic, political, and health consequences of various retirement systems. Prereqs., Socy 1001, and Socy 3001 or 3011. Restricted to junior/senior Socy majors.

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SOCY-4004 (3) Advanced Topics in Criminology

Variety of courses in criminology. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001 or 1004. Restricted to junior/senior SOCY majors.

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| College of Arts & Sciences | Sociology | Deviance and Criminology |
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SOCY-4007 (3) Global Human Ecology

Examines global environmental issues from sociological perspectives. Focuses on such problems as overpopulation, world hunger and poverty, pollution, resource shortages, environmental impact of technology and population dynamics, public policy, and strategies for change. Credit not granted for this course and SOCY 1002 or SEWL 2000. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4014 (3) Criminology

Scientific study of criminal behavior with special attention to development of criminal law, definition of crime, causes of law violation, and methods of controlling criminal behavior. Prereq., SOCY 1001 or 1004.

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SOCY-4016 (3) Sex, Gender, and Society 2

Studies status and power differences between the sexes at individual, group, and societal levels. Examines empirically established sex differences, and reviews biological, psychological, and sociological explanations for gender differences. Prereqs., SOCY 1016 or WMST 2000. Restricted to junior/senior SOCY majors. Same as WMST 4016.

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| College of Arts & Sciences | Sociology | Sex and Gender |
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SOCY-4017 (3) Animals and Society

Examines the role of non-human animals in human society. Investigates the social construction of the human/animal boundary. Challenges ideas that animals are neither thinking nor feeling. Examines the many ways humans rely on animals. Considers the link between animal cruelty and other violence. Explores the moral status of animals. Prereq., SOCY 1001.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-4021 (3) Conflict Management in Social Systems

Explores conflict resolution theory and method as applied to interpersonal, intergroup, and interorganization conflict. Prereqs., SOCY 1001, and SOCY 3001 or 3011.

College of Arts & Sciences | Sociology | General Sociology

SOCY-4024 (3) Juvenile Delinquency

Examines the history, incidence and prevalence of delinquent behavior, as well as why children become involved in criminal activity. Prereq., SOCY 1001 or 1004. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4027 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between (a) inequality and democratic decision making and (b) undemocratic decision making; U.S. and corporate food and energy policy; and global environmental degradation. The course also focuses on the role that global inequality plays in fostering environmental degradation. Restricted to juniors/seniors. Same as ENVS 4027. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Sociology | Environment and Society

SOCY-4031 (3) Social Psychology

Studies individuals in social context. Reviews philosophical and sociological treatments of the relation between the individual and society. More specific topics include the socialization process, theories of human development and personality formation, language acquisition, conformity, aggression, sex differences in personality and gender identity, and the relation between attitudes and overt behavior. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Sociology | General Sociology

SOCY-4037 (3) Hazards, Disasters and Society

Explores the societal dimensions of hazards and disasters, emphasizing disaster theory and research, key issues in the sociological study of disasters, social vulnerability, the impacts of disasters in the U.S. and worldwide, and the U.S. Emergency Management System. Prereq., SOCY 2077. Same as SOCY 5037.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-4042 (3) Economic Sociology

Defines relationship between economy and society; sociological approach to study of economic activity and organization; difference from the theoretical and methodological assumptions orienting the discipline of economics; tackles these questions in two ways: studies foundations as established in works of Smith, Marx, Weber, Polanyi, and Schumpeter, and considers current research in economic sociology, focusing on concepts of markets, networks, and embeddedness. Prereq., SOCY 1001. Restricted to sophomore, junior, senior SOCY majors.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-4047 (3) Topics in Environment and Society

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. May be repeated up to 9 credit hours for different topics.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-4052 (3) Social Inequalities in Health

Focuses on social inequalities in health in both U.S. and international contexts. Reviews the link between health status and various types of social statuses, including but not limited to socioeconomic status, gender, race, and ethnicity. Explanations for the relationships between these factors and various health outcomes are discussed. The class focuses on multiple levels of analysis, from the physician-patient interactions to health care systems and social policies. Students have the opportunity to develop their own specific research interests in this field. Prereq., SOCY 1001. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-4071 (3) Social Stratification

Studies theories of class, ethnic, sex, and age stratification. Examines social inequality in the United States and analyzes the resulting conflicts. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as SOCY 5071.

College of Arts & Sciences | Sociology | General Sociology

SOCY-4081 (1-3) Sociology of Education

Analyzes the school as a social organization. Among topics considered are power and control in the school; classroom interaction and its relation to learning and personality development in students; roles of educators; and reciprocal relations of school and community. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors.

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SOCY-4084 (3) Punishment, Law and Society

Places the current state of punishment in the U.S. in historical and cross national context. It examines key features of penal systems, and key sociological theories about the relationship between punishment and society. Prereqs., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4086 (3) Family and Society

Studies the changing relationship between family and social structure. Examines variations in family organization and considers political, social, ideological, demographic, and economic determinants of family formation. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 4086.

[College of Arts & Sciences](#)
[Sociology](#)
[Sex and Gender](#)

SOCY-4111 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision-making, civil society, cooperative economics, ecology, and decentralized power. Prereqs., SOCY 1001, and 3001 or 3011. Restricted to senior SOCY or PSCI majors. Same as INVS 4402.

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SOCY-4121 (3) Sociology of Religion

Examines complex interactions between religious and other social structures, such as the economy, government, and the family, and how globalization is affecting religious traditions across the globe. Includes discussion of how various religions are used or misused to justify terrorism and other acts of violence. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4131 (1-3) Advanced Topics in Sociology

Variety of advanced specialty courses taught by visiting and regular faculty designed for upper division sociology majors. See current departmental announcement for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001. Restricted to junior and senior SOCY majors.

College of Arts & Sciences Sociology General Sociology

SOCY-4141 (3) The Social Psychology of Friendships

Studies friendships between individuals and groups, applying social psychological theories of interaction and group processes. Examines the effects of hierarchies of status and power and of norms and social pressure on friendships. Attempts to answer questions like how social categories like gender, race, and class affect friendships, what are the unwritten rules of behavior among friends in different situations, and what happens when we violate them. Prereq., SOCY 1001. Restricted to junior/senior SOCY majors.

College of Arts & Sciences Sociology General Sociology

SOCY-4441 (3) Senior Honors Seminar 1

Helps students design and initiate an honors thesis based on original sociological research. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to Sociology majors with a minimum grade point average of 3.30. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4451 (3) Senior Honors Seminar 2

Helps students complete an honors thesis based on original sociological research. Emphasizes analyzing data, writing research reports, and presenting results. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to Sociology majors with a minimum grade point average of 3.30. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4461 (3) Critical Studies in Sociology

Examines a sociological topic in depth, covering such issues as class structure, race relations, gender roles, criminal justice, and political conflict, with an emphasis on writing, reading, and critical thinking. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4841 (1-8) Independent Study in Sociology

Upper-division variable credit. May be repeated up to 8 total credit hours. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-4911 (1-3) Teaching Sociology

Students participate in a teaching seminar under the supervision of a faculty member. Includes pedagogical strategies for implementing concrete educational goals and encouraging higher levels of creativity and analysis in a large, lower-division class. Emphasizes mentorship and personal development. Prereqs., SOCY 1004 and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-4931 (1-6) Internship in Sociology

Provides an academically supervised opportunity for junior and senior sociology majors to work in public or private organizations. Focuses on opportunities in criminal justice system, education, non-profits, health care, etc. May be repeated up to 6 total credit hours. Prereqs., SOCY 1001 and 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-5031 (3) Research Design

Principles and practice of social research, including the nature of scientific explanation, the relationship between theory and research, research design, measurement problems, sampling questionnaire construction, interviewing, ethnographic methods, and statistical analysis.

College of Arts & Sciences | Sociology | General Sociology

SOCY-5037 (3) Hazards, Disasters and Society

Same as SOCY 4037.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-5071 (3) Social Stratification

Same as SOCY 4071.

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SOCY-5111 (3) Data 1: Introduction to Social Statistics

Introduces statistical analysis in the social sciences. Introduces basic techniques of inferential statistics and several bivariate statistical techniques including t-test for the difference in means, chi-square independence, analysis of variance (ANOVA), correlation, and simple regression (OLS). This course prepares students for the required course on multivariate regression techniques (Data 2). Prerequisites: Restricted to Sociology (SOCY) graduate students only.

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SOCY-5201 (3) Graduate Seminar in Sociological Theory

Examines theoretical approaches to core issues and problems in sociology, including the nature of society, the relationship between society and the individual, the role of culture and social structure, the sources of social power, and the conceptual structure of sociological knowledge itself. Prerequisites: Restricted to Sociology (SOCY) graduate students only.

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SOCY-5611 (3) Teaching in Sociology

Learn how to teach sociology more effectively while developing a new content area and a clearer sense of the field. Choose a content area within sociology as the basis for planning a course and developing and practicing different teaching techniques. Prereq., enrollment in SOCY graduate program.

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SOCY-5841 (1-6) Independent Study in Sociology

Graduate variable credit. May be repeated up to 7 total credit hours. Prereq., instructor consent.

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SOCY-5937 (1-6) Graduate Research Internship in Environmental Sociology

Offers the opportunity for sociology graduate students specializing in environmental sociology to work with local governmental or non-profit organizations on research assignments. The research topic, academic reading list, and expectations for the final project will be developed collaboratively with a faculty sponsor and organizational representative.

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| College of Arts & Sciences | Sociology | Environment and Society |
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SOCY-6004 (3) Topics in Criminology

Variety of courses in criminology to be taught by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Formerly SOCY 5004.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-6007 (3) Foundations of Environmental Sociology

Provides overview of environmental sociological theory and research including topics such as: public environmental perception, concern, and knowledge; environmentalism as a social movement; environmental justice; energy, technology, and risk; human dimensions of environmental change; and natural hazards and disasters. Same as ENVS 6007. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-6012 (3) Population Issues, Problems, and Policies

Presents contemporary perspectives on relations between population and society. Focuses on mortality, fertility, and migration, the major demographic areas, with reviews of specific demographic phenomena and controversies. Formerly SOCY 5012.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-6016 (3) Topics in Sex and Gender

Covers diverse specializations of faculty in the area of sex and gender. See current departmental announcements or online Schedule Planner for specific content. May be repeated up to 9 total credit hours for different topics. Formerly SOCY 5016. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-6017 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between a) inequality and democratic decision making and b) undemocratic economic and political decision making, U.S. and corporate food and energy policy; and global environmental degradation. Focus will also be placed on the role that global inequality plays in fostering environmental degradation. Prereq., graduate standing. Formerly SOCY 5137.

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SOCY-6041 (3) Cultural Sociology

Explores "The cultural turn" in sociology and related disciplines. Reviews basic themes in cultural studies--e.g., distinguishing "Cultural" and "Social"; narrative as catalyst between symbols and practices; cultural production processes; self as embodied; culture and power; methods and epistemological issues. Students present their own projects in class and as research papers. Prereq., graduate standing. Formerly SOCY 5041.

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SOCY-6111 (3) Data 2: Data Analysis

Introduces students to mainstream multivariate regression techniques used in the social sciences. The majority of the course focuses on the Ordinary Least Square model and on the extension of this model to nominal, ordinal, and count dependent variables. Students will analyze data of their choosing with statistical software packages including SPSS, SAS, and STATA. Prereq., SOCY 5111 or equivalent. Formerly SOCY 5021.

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SOCY-6121 (3) Qualitative Methods

Training in the systematic observation of people in situations, finding them where they are, staying with them in a role acceptable to them that allows intimate observations of behavior. Students report their findings in ways useful to social science but not harmful to those observed. Formerly SOCY 5121. Prerequisites: Restricted to Graduate Students only.

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SOCY-6821 (2) Graduate Sociology Forum 1

Introduces first-year graduate students to the full range of substantive topics, research programs, and other projects in which graduate sociology faculty are engaged. Provides a forum in which issues of the discipline are presented and discussed. Features weekly presentations by graduate sociology faculty. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-6831 (1) Graduate Professional Seminar

Offers guidance and instruction on topics related to advanced graduate study and academic life beyond graduation. Discussions will include writing journal articles; creating a vitae; writing dissertations; applying for grants and other sources of funding; the academic job search; and what to expect as a junior faculty member. Restricted to graduate students.

College of Arts & Sciences | Sociology | General Sociology

SOCY-6841 (1-6) Guided Research in Sociology

May be repeated up to 7 total credit hours. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-6941 (1) Candidate for Degree for Master's Thesis

College of Arts & Sciences | Sociology | General Sociology

SOCY-6951 (1-6) Master's Thesis

College of Arts & Sciences | Sociology | General Sociology

SOCY-7002 (3) Social Disparities in Health

Presents social disparities in health in their social context. Includes the sociology of health behavior; links between health status and social statuses including gender, race, ethnicity, and socioeconomic status; fundamental causes and other explanations for social disparities in health; environment and health; health insurance disparities; the physician-patient interaction and its consequences. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-7004 (3) Criminological Theory

Examines the major criminological theories of the 18th through 21st centuries in Europe, Australia, and the U.S. Emphasizes the historical contexts and paradigms of knowledge influencing these theories. Prereq., graduate standing. Formerly SOCY 5114.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7006 (3) Sociology of Sex and Gender

Theoretical and empirical examination of sex stratification, sex role differentiation, and sex differences in socialization, personality, institutions, and culture. Formerly SOCY 5006.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7012 (3) The Social Demography of Race

Introduction to relevant, timely research within sociological and social demographic research on race and ethnicity. Specific areas will include conceptual/measurement issues; population size, growth, and migration; health and mortality; marriage, family, and fertility; socioeconomic context; and policy considerations. Course content will be structured around current empirical pieces in sociology literature with emphasis on methodological approach in analyses.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-7014 (3) Patterns of Criminal Behavior

Overview of the epidemiology of crime. Examines patterns of crime (both offending and victimization), and includes a gender, race/ethnicity, and class analysis. Formerly SOCY 5214.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7017 (3) Population and Environment

Reviews research on human-environment interactions, with a focus on ways in which demographic processes influence, and are influenced by, the environmental context. Specific topics include conceptual and analytical frameworks; methodologies; intervening factors shaping human dimensions of environmental change; and regionally-focused research. Prereq., graduate standing. Formerly SOCY 5117.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-7024 (3) Punishment and Social Control

Exploration of sociological perspectives on the criminal justice process. Considers organization of criminal law responses, including enforcing and sentencing. Race, class, gender, and age differences in treatment and sentencing are analyzed. Prereq., graduate standing. Formerly SOCY 5314. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7026 (3) Feminist Research Methods

Epistemological and methodological issues generated by feminist research and students' own projects. Formerly SOCY 5026.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7034 (3) Capital Punishment in the United States

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty. Prereq., graduate standing. Formerly SOCY 5414.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7036 (3) Feminist Theory

Examines the main schools of feminist thought and their impact upon sociological theories. Also examines current feminist theoretical debates and their relevance to feminist sociology. Prereq., graduate standing. Formerly SOCY 5036. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7111 (3) Data III---Advanced Data Analysis

Denotes third graduate course in sequence of quantitative methods. Following basic inferential statistics (SOCY 5111) and multivariate regression analysis (SOCY 6111), students study advanced statistical techniques such as event history analysis, multilevel modeling, structural equation modeling, and latent class analysis. May be repeated up to 9 total credit hours when topics vary. Prereqs., SOCY 5111 and 6111 and graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-7121 (3) Qualitative Analysis

Drawing on data gathered through participation, observation, and in-depth interviewing, students focus on developing theoretical analyses and exploring classical and post-modern ethnographic writing formats. Students present and revise their papers as well as review journal articles. Prereqs., graduate standing and Socy 5121 or 6121, or instructor consent. Formerly Socy 5221. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-7131 (3) Seminar in Social Psychology

Studies the individual in social context. Focuses on theoretical perspectives and substantive issues specific to sociological and social psychology, including socialization, the self, social roles, language, deviance, gender, collective behavior, group processes, attitudes and behavior, social norms, and conformity. Formerly SOCY 5531.

College of Arts & Sciences | Sociology | General Sociology

SOCY-7171 (3) Special Topics

May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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SOCY-3141 (3) Social Movements in the U.S

Considers theory and research about American social movements. Emphasizes leadership, ideology, recruitment, strategy, organizational dynamics, public response, and reasons for success or failure. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3151 (3) Self in Modern Society

Explores how modern social institutions and culture shape our personal experiences, how personal experiences can affect the nature of those, institutions and culture, and how strategies can be developed for achieving balance between the individual and society. Prereqs., SOCY 1001 and SOCY 3001 3011. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3161 (3) Sociological Perspectives on Race and Ethnicity

Addresses three subtopics of race from a sociological perspective: ethnic and racial identities, immigration, and race and ethnicity in Latin America. Recommended prereq., SOCY 1001.

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SOCY-3171 (3) Whiteness Studies

Uses the conceptual framework of the sociology of race and ethnic relations to explore whiteness as a racial category that is centered and privileged in American society. Investigates the development of whiteness from past white supremacy, current colorblindness, to possible future multiculturalism. Analyzes the consequences of whiteness as a racial identity and a social structure. Prereqs., SOCY 1001 and 1021.

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SOCY-3301 (3) Survey Methods

Teaches quantitative research methods and, particularly, methods of survey research. Topics include sampling, interviewing, schedule construction, data analysis, computer methods, index construction, and statistical analysis. Students participate in a survey project, design, collect data, and prepare a research paper on the basis of collected data. Prereqs., SOCY 1001, 2061, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3401 (3) Field Methods

Skill development prepares students to conduct qualitative sociological research. Emphasizes ethnographic techniques, including intensive interviewing, direct observation, coding, participant observation, and report writing. Students conceive and execute a field research project with data collection, analysis, and a report. Prereqs., SOCY 1001 and SOCY 3001 or 3011.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4021 (3) Conflict Management in Social Systems

Explores conflict resolution theory and method as applied to interpersonal, intergroup, and interorganization conflict. Prereqs., SOCY 1001, and SOCY 3001 or 3011.

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SOCY-4031 (3) Social Psychology

Studies individuals in social context. Reviews philosophical and sociological treatments of the relation between the individual and society. More specific topics include the socialization process, theories of human development and personality formation, language acquisition, conformity, aggression, sex differences in personality and gender identity, and the relation between attitudes and overt behavior. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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SOCY-4071 (3) Social Stratification

Studies theories of class, ethnic, sex, and age stratification. Examines social inequality in the United States and analyzes the resulting conflicts. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as SOCY 5071.

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SOCY-4081 (1-3) Sociology of Education

Analyzes the school as a social organization. Among topics considered are power and control in the school; classroom interaction and its relation to learning and personality development in students; roles of educators; and reciprocal relations of school and community. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors.

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SOCY-4111 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision--making, civil society, cooperative economics, ecology, and decentralized power. Prereqs., SOCY 1001, and 3001 or 3011. Restricted to senior SOCY or PSCI majors. Same as INVS 4402.

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SOCY-4121 (3) Sociology of Religion

Examines complex interactions between religious and other social structures, such as the economy, government, and the family, and how globalization is affecting religious traditions across the globe. Includes discussion of how various religions are used or misused to justify terrorism and other acts of violence. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4131 (1-3) Advanced Topics in Sociology

Variety of advanced specialty courses taught by visiting and regular faculty designed for upper division sociology majors. See current departmental announcement for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001. Restricted to junior and senior SOCY majors.

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SOCY-4141 (3) The Social Psychology of Friendships

Studies friendships between individuals and groups, applying social psychological theories of interaction and group processes. Examines the effects of hierarchies of status and power and of norms and social pressure on friendships. Attempts to answer questions like how social categories like gender, race, and class affect friendships, what are the unwritten rules of behavior among friends in different situations, and what happens when we violate them. Prereq., SOCY 1001. Restricted to junior/senior SOCY majors.

[College of Arts & Sciences](#) [Sociology](#) [General Sociology](#)

SOCY-4441 (3) Senior Honors Seminar 1

Helps students design and initiate an honors thesis based on original sociological research. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to Sociology majors with a minimum grade point average of 3.30. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4451 (3) Senior Honors Seminar 2

Helps students complete an honors thesis based on original sociological research. Emphasizes analyzing data, writing research reports, and presenting results. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to Sociology majors with a minimum grade point average of 3.30. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4461 (3) Critical Studies in Sociology

Examines a sociological topic in depth, covering such issues as class structure, race relations, gender roles, criminal justice, and political conflict, with an emphasis on writing, reading, and critical thinking. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Sociology (SOCY) majors only.

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SOCY-4841 (1-8) Independent Study in Sociology

Upper-division variable credit. May be repeated up to 8 total credit hours. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

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SOCY-4911 (1-3) Teaching Sociology

Students participate in a teaching seminar under the supervision of a faculty member. Includes pedagogical strategies for implementing concrete educational goals and encouraging higher levels of creativity and analysis in a large, lower-division class. Emphasizes mentorship and personal development. Prereqs., SOCY 1004 and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-4931 (1-6) Internship in Sociology

Provides an academically supervised opportunity for junior and senior sociology majors to work in public or private organizations. Focuses on opportunities in criminal justice system, education, non-profits, health care, etc. May be repeated up to 6 total credit hours. Prereqs., SOCY 1001 and 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-5031 (3) Research Design

Principles and practice of social research, including the nature of scientific explanation, the relationship between theory and research, research design, measurement problems, sampling questionnaire construction, interviewing, ethnographic methods, and statistical analysis.

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SOCY-5071 (3) Social Stratification

Same as SOCY 4071.

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SOCY-5111 (3) Data 1: Introduction to Social Statistics

Introduces statistical analysis in the social sciences. Introduces basic techniques of inferential statistics and several bivariate statistical techniques including t-test for the difference in means, chi-square independence, analysis of variance (ANOVA), correlation, and simple regression (OLS). This course prepares students for the required course on multivariate regression techniques (Data 2). Prerequisites: Restricted to Sociology (SOCY) graduate students only.

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SOCY-5201 (3) Graduate Seminar in Sociological Theory

Examines theoretical approaches to core issues and problems in sociology, including the nature of society, the relationship between society and the individual, the role of culture and social structure, the sources of social power, and the conceptual structure of sociological knowledge itself. Prerequisites: Restricted to Sociology (SOCY) graduate students only.

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SOCY-5611 (3) Teaching in Sociology

Learn how to teach sociology more effectively while developing a new content area and a clearer sense of the field. Choose a content area within sociology as the basis for planning a course and developing and practicing different teaching techniques. Prereqs., enrollment in SOCY graduate program.

College of Arts & Sciences | Sociology | General Sociology

SOCY-5841 (1-6) Independent Study in Sociology

Graduate variable credit. May be repeated up to 7 total credit hours. Prereq., instructor consent.

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SOCY-6041 (3) Cultural Sociology

Explores "The cultural turn" in sociology and related disciplines. Reviews basic themes in cultural studies--e.g., distinguishing "Cultural" and "Social"; narrative as catalyst between symbols and practices; cultural production processes; self as embodied; culture and power; methods and epistemological issues. Students present their own projects in class and as research papers. Prereq., graduate standing. Formerly SOCY 5041.

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SOCY-6111 (3) Data 2: Data Analysis

Introduces students to mainstream multivariate regression techniques used in the social sciences. The majority of the course focuses on the Ordinary Least Square model and on the extension of this model to nominal, ordinal, and count dependent variables. Students will analyze data of their choosing with statistical software packages including SPSS, SAS, and STATA. Prereq., SOCY

5111 or equivalent. Formerly SOCY 5021.

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SOCY-6121 (3) Qualitative Methods

Training in the systematic observation of people in situations, finding them where they are, staying with them in a role acceptable to them that allows intimate observations of behavior. Students report their findings in ways useful to social science but not harmful to those observed. Formerly SOCY 5121. Prerequisites: Restricted to Graduate Students only.

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SOCY-6821 (2) Graduate Sociology Forum 1

Introduces first-year graduate students to the full range of substantive topics, research programs, and other projects in which graduate sociology faculty are engaged. Provides a forum in which issues of the discipline are presented and discussed. Features weekly presentations by graduate sociology faculty. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

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SOCY-6831 (1) Graduate Professional Seminar

Offers guidance and instruction on topics related to advanced graduate study and academic life beyond graduation. Discussions will include writing journal articles; creating a vitae; writing dissertations; applying for grants and other sources of funding; the academic job search; and what to expect as a junior faculty member. Restricted to graduate students.

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SOCY-6841 (1-6) Guided Research in Sociology

May be repeated up to 7 total credit hours. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

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SOCY-6941 (1) Candidate for Degree for Master's Thesis

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SOCY-6951 (1-6) Master's Thesis

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SOCY-7111 (3) Data III---Advanced Data Analysis

Denotes third graduate course in sequence of quantitative methods. Following basic inferential statistics (SOCY 5111) and multivariate regression analysis (SOCY 6111), students study advanced statistical techniques such as event history analysis, multilevel modeling, structural equation modeling, and latent class analysis. May be repeated up to 9 total credit hours when topics vary. Prereqs., SOCY 5111 and 6111 and graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-7121 (3) Qualitative Analysis

Drawing on data gathered through participation, observation, and in-depth interviewing, students focus on developing theoretical analyses and exploring classical and post-modern ethnographic writing formats. Students present and revise their papers as well as review journal articles. Prereqs., graduate standing and Socy 5121 or 6121, or instructor consent. Formerly Socy 5221. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-7131 (3) Seminar in Social Psychology

Studies the individual in social context. Focuses on theoretical perspectives and substantive issues specific to sociological and social psychology, including socialization, the self, social roles, language, deviance, gender, collective behavior, group processes, attitudes and behavior, social norms, and conformity. Formerly SOCY 5531.

College of Arts & Sciences | Sociology | General Sociology

SOCY-7171 (3) Special Topics

May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

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SOCY-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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ARTS-1010 (3) Introduction to Studio Art

Presents creative activity conceptually, and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Fine arts majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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ARTS-1020 (3) Introduction to Studio Art 2

Presents creative activity conceptually and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Art and art history majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prereq., ARTS 1010. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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ARTS-1030 (3) Principles of Color

Introduces the relative effects of color as used by the artist. Emphasizes the practice of color relations including basic characteristics, mixtures, illusions, optical mixture, color intervals, and color quantity. May not be repeated.

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ARTS-1010 (3) Introduction to Studio Art

Presents creative activity conceptually, and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Fine arts majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-1171 (3) Photography for Non-Majors

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Credit not granted for this course and ARTS 2171.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Photography](#)

ARTS-2171 (3) Photography 1

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Credit not granted for this course and ARTS 1171. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2191 (3) Photography 2

Explores more sophisticated technical and conceptual skills to the creative process. Prereq., ARTS 2171. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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[Photography](#)

ARTS-3191 (3) Photography 3

Continues the exploration of the possibility of individual photographic expression. Students are encouraged to discover and develop a personal position in relation to the medium. May be repeated up to 6 total credit hours. Prereq., Arts 2191. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-3841 (1-3) Undergraduate Independent Study---Photography

Reserved only for special projects in photography, not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 3191 or 4161. Requires a detailed proposal, instructor's signature, and departmental approval.

College of Arts & Sciences | Art & Art History | Photography

ARTS-4161 (3) Photography 4

Explores advanced techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. May be repeated up to 12 total credit hours. Prereq., ARTS 3191. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-4171 (3) New Directions in Photography

Investigates the use of the photographic image in new, antique, or nonstandard ways including nonsilver, photosculpture, various color processes, photolanguage, photoinstallations, electronic media, performance, filmmaking, electrostatic art (copy machine), photobooks, photocollage, and audio/visual art. Course content changes each semester. May be repeated up to 9 total credit hours. Prereq., ARTS 3191 or equivalent. Same as ARTS 5171. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-5161 (3) Graduate Photography

May be repeated up to 18 total credit hours.

College of Arts & Sciences | Art & Art History | Photography

ARTS-5171 (3) New Directions in Photography

May be repeated up 9 total credit hours. Same as ARTS 4171. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-5191 (3) Digital Photography in Mongolia

Same as ARTS 4191.

College of Arts & Sciences | Art & Art History | Photography

ARTS-5901 (1-3) Graduate Independent Study---Photography

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Art & Art History | Photography

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ARTS-1012 (3) Drawing for Non-Majors

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated.

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ARTS-1020 (3) Introduction to Studio Art 2

Presents creative activity conceptually and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Art and art history majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prereq., ARTS 1010. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-1030 (3) Principles of Color

Introduces the relative effects of color as used by the artist. Emphasizes the practice of color relations including basic characteristics, mixtures, illusions, optical mixture, color intervals, and color quantity. May not be repeated.

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ARTS-1171 (3) Photography for Non-Majors

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Credit not granted for this course and ARTS 2171.

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ARTS-1202 (3) Beginning Painting 1

The aim of this course is to develop the basic skills, techniques and processes of painting with an understanding of basic colour principles. This integration of paint application and colour principle will develop awareness that painting and colour are used, not only as mediums for representation, but also as mediums for expressive purposes. Demonstrations, lectures, group and individual critiques will be given throughout the course. Prereqs., ARTS 1010, 1020, and 1030.

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ARTS-1212 (3) Painting for Non-Majors

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated.

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ARTH-1300 (3) History of World Art 1

Surveys major art styles from the Paleolithic period through the Renaissance, including European, Asian, and the Pre-Columbian/Islamic world. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTH-1400 (3) History of World Art 2

Surveys major art styles from about 1600 to the present, including Europe, Asia, the Islamic world, the Americas, and tribal arts. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Credit not granted for this course and FINE 1409. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTH-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece, and Rome, examining various ancient approaches to power, religion, death, and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as CLAS 1509. Approved for arts and science core curriculum: historical context or literature and the arts.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTH-1709 (3) Freshmem Seminar: Critical Introduction to Art History

Provides a broad introduction to understanding and appreciating art and art history within a critical lecture seminar and discussion format. The focus of this course is a selected Particulary directed to nonmajors. Formerly FINE 1709. Approved for arts and science core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-2019 (3) Pompeii and the Cities of Vesuvius

Introduces the towns and villas buried by the eruption of Mt. Vesuvius in 79 C.E. Explores the layout and decoration of ancient Roman houses, the variety of artifacts uncovered as evidence for daily life and the history of the excavations. Same as CLAS 2019. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Art & Art History | Art History

ARTH-2409 (3) Intro to Asian Art

Designed for those having no previous experience in the study of Asian art. Traces development of sculpture, painting, architecture, and the other visual arts of South Asia, the Far East, and Southeast Asia, with a synopsis of developments from 1453 through the 18th century. Approved for GT-AH1. Approved for arts and science core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3009 (3) Critical Thinking in Art History

Through structured discussions, selected readings, and written assignments provides an understanding of how art history has evolved as an academic discipline and how art historians evaluate complex issues of style, form, content, and theory in the visual arts. Prereqs., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3029 (3) Medieval and Early Modern Visual Culture, A.D. 400 to A.D. 1750

Introduces students to the literature, history, culture and art of Europe and the Mediterranean basin from late antiquity through the early modern period. Interdisciplinary approach to visual culture focuses on uses of sacred religious practices and lay devotion. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3039 (3) Greek Art and Archaeology

Covers prehistoric Aegean through the fourth century B.C.E., considering architecture, pottery, painting, sculpture, and personal ornament. Societal customs such as use of space and burial

patterns are considered as well as art and its uses, to help understand developments in Greek culture. Credit not granted for this course and FINE/CLAS 1009. Same as CLAS 3039. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3049 (3) Introduction to Roman Art and Architecture

Introduces the monuments and sites of the ancient Roman world from the foundation of Rome (753 B.C.E.) to Constantine (306-307 C.E.). Emphasizes the relationship of art, architecture, and artifacts to the political, social, and religious institutions of Italy and the provinces. Same as CLAS 3049. Credit not granted for this course and CLAS 1019. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3079 (3) Medieval Art Survey

Surveys the history of Western art from Constantine to around the year 1300, including Carolingian, Ottonian, Anglo-Saxon, Romanesque, and Gothic. Considers "Barbarian," Byzantine, and Islamic influences. Prereqs., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3109 (3) Art in Contemporary Society

Examines writings by philosophers and art critics as they address the question: What is art for? Readings focus on the 19th and 20th centuries, including current theories and some non-Western theories. Students are encouraged to develop their own responses to the question. Prereqs., ARTH 1300 and 1400. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3209 (3) Art, Culture, and Gender Diversity, 1400--1600: Renaissance Art Out of the Canon

Studies the rising status of painting, sculpture, and architecture in Europe and how Europeans perceived non-Western art during the early modern period. Introduces history of race/ethnicity, gender, and class concerns embodied in the European category visual arts. Emphasizes new methods for interpreting history without imposing Eurocentric viewpoints. Prereqs., ARTH 1300 and 1400. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3210 (3) The Art of Renaissance Cities and Courts

Surveys the development and spread of humanist culture associated with the modern term "Renaissance Art" from c. 1400-1600, organized by location, artist, and patron. Presents significant works of paintings, sculpture and architecture at a number of major artistic centers including Florence, Rome, Venice, Fontainebleau, and Prague. Prereq., ARTH 1300 or 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3309 (3) European Art, 1300--1800

Covers high visual culture in Europe from 1300 to 1800. Discussions of this concept with its implications for aesthetics, semiotics, and ideology form the core of the course. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3419 (3) Modern Art Survey

Surveys the loss of beauty in art and discusses whether or not that loss is regrettable. Questions the function and historical meaning of modern and postmodern art: is it all hype and strategic positioning by artists for fame and fortune? Is it serious? Are the fine arts still fine? Prereq., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3509 (3) American Art

Surveys American art and material culture from the precolonial era to the present day. Considers cultural and artistic interaction, ethnic expressions, patronage, European and non-Western influences, and the struggle to develop a uniquely American artistic identity. Prereqs., ARTH 1300 and 1400. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3519 (3) Modern Architecture, 1780--1960

Introduces the major movements and developments in European and American architecture from Neoclassicism to Postmodernism. Considers the impact of exhibitions, expositions, and vernacular architecture. Prereqs., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3539 (3) Contemporary Art

Examines contemporary art and theory in the transition from modern to postmodern expression. Discusses painting, sculpture, installations, performance, video, photography, and architecture with attention to historical context and criticism. Considers neoexpressionist, feminist, minority, political, and public art. Prereq., one 3000-level art history course. Same as ARTH 5539. Formerly ARTH 4539.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3619 (3) The Arts of China

Surveys Chinese painting, sculpture, architecture, and other arts from neolithic to modern times. Prereqs., ARTH 1300, or 1400, or 2409, or HIST 1608.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3629 (3) The Arts of Japan

Offers an appreciation and chronological development of the arts of Japan. Emphasizes the arts of Shintoism and Buddhism as well as the particular Japanese aesthetic from prehistoric times to the present. Prereq., one 3000-level art history course.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3719 (3) History of Media Arts

Surveys the development of technological media both as sources of information and as art. Photography and related media, film, video, holography, and electronic imaging systems are surveyed as art and as technologies, emphasizing major artists, movements, exhibitions, and other productions in the 19th and 20th centuries. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3729 (3) Foundations in Latin American Art

Examines Latin America's cultural pluralism and art production beginning in pre-Columbian times and following through to the present. Considers the various functions of art as well as the relationship between objects, artists, and the cultures from which they come. Provides students with a broad frame of reference for many historical periods and equips students to evaluate art objects and their cultural contexts. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3929 (1-3) Special Topics in Art History

May be repeated up to 18 total credit hours when topic varies. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4069 (3) Medieval Manuscripts

Surveys decorated books from late antiquity to the advent of the printing press. Examines the various roles manuscripts played within different medieval communities. Prereq., ARTH1300 and 1400. Same as ARTH 5069.

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ARTS-1514 (3) Sculpture for Non-Majors

Offers an orientation involving three-dimensional form and application. Studies expressive problems based on non-objective form relationships in various sculptural materials. May not be repeated.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Sculpture](#)

ARTS-2004 (3) Participatory Objects (Sculpture and Post-Studio Practice)

Looks at the tendency in contemporary sculpture to create interactive objects and experiences for the viewer. Students in this course are required to create hands-on projects, participate in group critiques, and develop presentations and research projects. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

[College of Arts & Sciences](#)
[Art & Art History](#)
[Sculpture](#)

ARTS-2054 (3) Modules and Multiples (Sculpture and Post-Studio Practices)

Exposes students to the practice of creating large works through smaller multiples and modules. Students will learn to cast using plaster and other types of materials, molds and jigs will also be introduced as a way to streamline production of multiple objects. Prereq., ARTS 1010 and 1020.

[College of Arts & Sciences](#)
[Art & Art History](#)
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ARTS-2104 (3) Colossal Objects (Sculpture and Post-Studio Practice)

Focuses on the conception, design and production of art works that are larger than human scale. Each object will be the result of individual and team design collaboration. This course primarily focuses on sculpture constructed and engineered from metal although other materials are welcome. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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| College of Arts & Sciences | Art & Art History | Sculpture |
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ARTS-2184 (3) Nothing Flat: Project a Week (Sculpture & Post-Studio Practice)

Provides students the opportunity to work with a range of sculptural materials through a series of quick projects (e.g. installation, objects, writing). Students will learn to generate ideas quickly, engage issues and formats particular to sculpture, and produce a wide range of work over 15 weeks. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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| College of Arts & Sciences | Art & Art History | Sculpture |
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ARTS-2244 (3) Drawing for Sculpture (Sculpture and Post-Studio Practice)

Explores and examines many relationships between sculpture and drawing. Projects will explore 2-D drawing and mixed media projects through the lens of sculptural practice. Scale, materials, and styles will be researched along with topics such as the artists proposal, investigative processes, drawing and sculptural installations. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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| College of Arts & Sciences | Art & Art History | Sculpture |
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ARTS-2504 (3) Basic Sculpture: Materials and Techniques

Introduces the basic properties of metal, wood, and mold making. Students will explore and demonstrate an understanding of basic fabrication methods involved in each element. Students will investigate both traditional and non-traditional working methods and will consider how materials and techniques inform sculptural concepts. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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| College of Arts & Sciences | Art & Art History | Sculpture |
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ARTS-2524 (3) Visual Thinking (Sculpture and Post-Studio Practice)

Explores ideas concerning the structure and nature of visual thinking and their relationship to the creative thought process. Also investigates form in terms of the organizing principles of three-dimensional design and its application to contemporary sculpture. Includes lecture and studio projects. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only. Prereq., ARTS 1010 & 1020. May be repeated up to 6 total credit hours. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3124 (3) Intervention, Exchange, and Duration (Sculpture & Post-Studio Practice)

Focuses on the production of works of art outside of the traditional studio, museum and gallery. Projects in this course will be designed to interrupt, intervene, co-opt, provide a service, exist for a

defined amount of time, or engage a site, community or situation. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3224 (3) Picturing Sculpture

Explores the many ways photography and other forms of imagery have been utilized in the field of sculpture. In this course, students will start from the sculptural, but those objects and installations will function as an intermediary to creating final work that will rest in the image. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3354 (3) Bend, Build, Burn: Sculpture in Wood

Focuses on the production of works of art in wood. Class projects explore building, bending, and burning with wood. This course primarily focuses on sculptural constructed objects although possibilities of installation, site-specific, and public art will also be explored. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3384 (3) Fleeting and Found: Ephemeral Sculpture

Focuses on creating sculpture projects which are ephemeral and temporary. Themes of process, lifespan, migration, tension, entropy, and degradation will be explored. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3504 (3) Sculpture 3: Experiments 1

Explores materials, methods, and techniques through a series of assignments emphasizing individual ideas and their relationship to contemporary aesthetics. Prereqs., ARTS 2504 and 2524. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3514 (3) Sculpture 3: Experiments 2

Explores individual concepts and ideas and their relationship to contemporary issues and aesthetics. a series of assignments are worked out with the instructor based on individual interest. Prereq., ARTS 3504. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3614 (3) Lost in Space: Installation Art

Students in this course will learn how to develop ideas in relation to installation art, exhibition spaces, and explore practical skills to help carry out their ideas. This course will include lectures, readings and discussion, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4024 (3) Public Art: from Statues to the Internet

Focuses on the two areas 1) lecture/discussion, both based on political, historical and the aesthetic evolution regarding examples of public art and 2) current practice, in reference to how to use such information to generate new more innovative and original ideas regarding public art and its application. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Prereqs., ARTS 1010 and 1020. Recommended prereqs., ARTS 2504, 2524, and 3504. Same as ARTS 5024.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4104 (3) Performance/Installation

Primarily focuses upon personal imagery as a live situation occurring in either an invented constructed reality or real environment. Work may be individual or group configuration, and may also take on the visual linguistic form of a solo performance or of a multimedia presentation. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. May be repeated up to 6 total credit hours with instructor consent. Same as ARTS 5104. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4154 (3) Metalsmithing 1

Introduces students to the fundamental techniques used in metalsmithing, including cold and hot fabrication techniques, forming, and coloring. Through projects, discussions, readings, and demonstrations, students will learn how to create, analyze, understand and critique contemporary metalwork. Projects will focus on design and concept development, while enhancing students' technical and problem-solving skills. Prereqs., ARTS 1010, 1020, at least one ARTS 2000-level course, and at least one ARTS 3000-level course. Same as ARTS 5154.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4444 (6) Art and Rural Environments Field School

Puts students in touch with various rural landscapes in Colorado, including the High Plains region near the town of Last Chance. This course takes place off campus each summer during maymester. This course focuses on site-based approaches to art creation and is designed as an experiential course, meaning that students learn through the experience of place, and then by the process of making. After introductions to each site, students will be responsible for a site interpretation piece utilizing various mediums including photography, drawing, land art, and collaboration. Prereqs., ARTS 1010 and 1020. Recommended prereq., ARTS 2504. Same as ARTS 5444.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4504 (3) Advanced Sculpture Studio

Students in this course will be required to complete 3 projects, participate in group critiques of projects, produce a slide presentation on a contemporary artist whose work/practice fits within the theme of the course, and prepare a final portfolio. Studio work and demonstrations will be augmented by readings and discussions on contemporary art. May be repeated up to 6 total credit hours. Prereqs., ARTS 3504 and 3514. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5024 (3) Public Art: from Statues to the Internet

Focuses on the two areas 1) lecture/discussion, both based on political, historical and the aesthetic evolution regarding examples of public art and 2) current practice, in reference to how to use such information to generate new more innovative and original ideas regarding public art and its application. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Same as ARTS 4024. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5104 (3) Graduate Performance/Installation

May be repeated up to 6 total credit hours with instructor consent. Same as ARTS 4104. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5154 (3) Metalsmithing 1

Introduces students to the fundamental techniques used in metalsmithing, including cold and hot fabrication techniques, forming, and coloring. Through projects, discussions, readings, and demonstrations, students will learn how to create, analyze, understand and critique contemporary metalwork. Projects will focus on design and concept development, while enhancing students' technical and problem-solving skills. Same as ARTS 4154. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5444 (6) Art and Rural Environments Field School

Puts students in touch with various rural landscapes in Colorado, including the High Plains region near the town of Last Chance. This course takes place off campus each summer during maymester. This course focuses on site-based approaches to art creation and is designed as an experiential course, meaning that students learn through the experience of place, and then by the process of making. After introductions to each site, students will be responsible for a site interpretation piece utilizing various mediums including photography, drawing, land art, and collaboration. Same as ARTS 4444. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5504 (3) Graduate Sculpture

May be repeated up to 18 credit hours. Prerequisites: Restricted to Graduate Students only.

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ARTH-1300 (3) History of World Art 1

Surveys major art styles from the Paleolithic period through the Renaissance, including European, Asian, and the Pre-Columbian/Islamic world. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

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ARTH-1400 (3) History of World Art 2

Surveys major art styles from about 1600 to the present, including Europe, Asia, the Islamic world, the Americas, and tribal arts. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Credit not granted for this course and FINE 1409. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

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ARTH-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece, and Rome, examining various ancient approaches to power, religion, death, and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as CLAS 1509. Approved for arts and science core curriculum: historical context or literature and the arts.

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ARTS-1514 (3) Sculpture for Non-Majors

Offers an orientation involving three-dimensional form and application. Studies expressive problems based on non-objective form relationships in various sculptural materials. May not be repeated.

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ARTH-1709 (3) Freshmem Seminar: Critical Introduction to Art History

Provides a broad introduction to understanding and appreciating art and art history within a critical lecture seminar and discussion format. The focus of this course is a selected Particularly directed to nonmajors. Formerly FINE 1709. Approved for arts and science core curriculum: literature and the arts.

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ARTS-1875 (3) Ceramics for Non-Majors

Encompasses broad and fundamental uses of clay. Basic instruction and demonstration of throwing, hand building, and primitive clay forming methods. Investigates utility, function, and ceramics in the broader context of contemporary art. Slide presentations explore historical and contemporary attitudes involving ceramics.

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ARTS-2085 (3) Ceramics 2: Handbuilding

Introduces techniques of hand-built clay forms as they relate to function and nonfunction. Various clay techniques, glazing, and firing procedures are explored. Emphasizes ceramics in the broader context of contemporary art. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2095 (3) Ceramics 2: Wheelthrowing

Introduces techniques of wheel-thrown forms as they relate to function and nonfunction. Explores various glazing and firing methods. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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[Ceramics](#)

ARTS-3085 (3) Ceramics 3

Deals with further exploration of techniques approached in ARTH 2085 and 2095. Students are encouraged to develop personal concentration in relation to medium. May be repeated up to 6 total credit hours. Prereqs., ARTS 2085, 2095. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-3845 (1-3) Undergraduate Independent Study---Ceramics

Reserved for special projects in ceramics not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 3085 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-4085 (3) Ceramics 4

Includes lectures, research, and experimentation in clay (wheel and hand construction techniques). May be repeated up to 12 total credit hours. Prereq., ARTS 3085. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-4095 (3) Special Topics in Ceramics

Designed for students majoring in ceramics. May be repeated up to 9 total credit hours. Taught with ARTS 5095. Prereq., ARTS 3085. Restricted to majors. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-5075 (3) Graduate Ceramics

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-5095 (3) Graduate Special Topics in Ceramics

Taught with ARTS 4095. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Ceramics

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ARTS-1875 (3) Ceramics for Non-Majors

Encompasses broad and fundamental uses of clay. Basic instruction and demonstration of throwing, hand building, and primitive clay forming methods. Investigates utility, function, and ceramics in the broader context of contemporary art. Slide presentations explore historical and contemporary attitudes involving ceramics.

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ARTS-2002 (3) Figure Drawing

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2004 (3) Participatory Objects (Sculpture and Post-Studio Practice)

Looks at the tendency in contemporary sculpture to create interactive objects and experiences for the viewer. Students in this course are required to create hands-on projects, participate in group critiques, and develop presentations and research projects. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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ARTH-2019 (3) Pompeii and the Cities of Vesuvius

Introduces the towns and villas buried by the eruption of Mt. Vesuvius in 79 C.E. Explores the layout and decoration of ancient Roman houses, the variety of artifacts uncovered as evidence for daily life and the history of the excavations. Same as CLAS 2019. Approved for arts and sciences core curriculum: historical context.

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ARTS-2054 (3) Modules and Multiples (Sculpture and Post-Studio Practices)

Exposes students to the practice of creating large works through smaller multiples and modules. Students will learn to cast using plaster and other types of materials, molds and jigs will also be introduced as a way to streamline production of multiple objects. Prereq., ARTS 1010 and 1020.

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ARTS-2085 (3) Ceramics 2: Handbuilding

Introduces techniques of hand-built clay forms as they relate to function and nonfunction. Various clay techniques, glazing, and firing procedures are explored. Emphasizes ceramics in the broader context of contemporary art. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2126 (3) Digital Art 1

An introductory course in the use of the personal computer to create and process images in the visual arts. Prereq., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires prerequisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3196 (3) Photo-Imaging

Introduces techniques, software, and related concepts of digital photography as art. Emphasizes digital photography as a means to formal and expressive ends. Prereq., ARTS 1171.

[College of Arts & Sciences](#) [Art & Art History](#) [Media Arts](#)

ARTS-3236 (3) Electronic Arts Survey

Explores the development of video as an art form through tape screenings, readings, lectures, and discussions. Prerequisite for further studies in video production.

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ARTS-3906 (1-3) Undergraduate Independent Study---Video

Reserved for special projects in video not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 4246 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4126 (3) Digital Art 2

Offers studio experience using personal computer in the generation and processing of imagery in the visual arts. Prereq., ARTS 2126. Same as ARTS 5126. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4176 (3) New Directions in Digital Art

Investigates the use of digital art in various contexts including digital narrative, web publishing, Internet art, multimedia performance, animation, conceptual art, information art, sound art, language art, and network installations. May be repeated up to 9 total credit hours. Prereqs., ARTS 2126 and 4316/5316 or instructor consent. Same as ARTS 5176. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4196 (3) Advanced Photo-Imaging

Offers an in-depth exploration of digital imaging in the context of the history, aesthetics, and tradition of photography as contemporary art. Emphasis is on digital manipulation, output, and individual growth and development. Prereq., ARTS 2191 or advanced standing in photography or media arts. Same as ARTS 5196.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4226 (3) Advanced Computer Imaging

Explores advanced techniques and concepts of digital image-making. Emphasizes the creative application of computer imaging in the production of visual art through individual projects. Prereq., ARTS 4126. Restricted to junior or senior ARTS or ARTH majors. Same as ARTS 5226.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4236 (3) Electronic Arts Survey 2

Continuation of electronic arts survey. Explores the development of video as an art form. Prerequisite for further studies in video production. Same as ARTS 5236.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4246 (3) Beginning Video Production

Presents a studio course on basic single camera video production strategies and concepts. Through class screenings, projects, demonstrations, discussions, and readings, students gain an introductory familiarity with camera, lighting, sound, editing and the organization and planning involved in a video project. Explores a basic theoretical understanding of video as an art form and its relationship to television, film, art, history, culture. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400 or instructor consent. Same as ARTS 5246 and FILM 4240. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4316 (3) History and Theory of Digital Art

Explores the history and theory of digital art. Discussion topics include the emergence of Internet art, hypertext, new media theory, online exhibitions, web publishing, virtual reality, and the networked interface. Includes collaborative and individual projects. Prereq., ARTS 2126 or instructor consent. Same as ARTS 5316. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4346 (3) Intermediate Video Production

Continuation of beginning video production. Extends the knowledge of single camera video production strategies and concepts. Expands the concept of montage (editing) and strategies to develop a video project through class screenings, projects, discussions, and readings. Furthers theoretical understanding of video as an art form. Prereq., ARTS 4246 or instructor consent. Same as ARTS 5346 and FILM 4340.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4446 (3) Advanced Video Production

Continuation of intermediate video production. Explores advanced technical skills to control the quality of the video image in production, postproduction, and distribution. Emphasizes self-motivated independent projects, conceptual realization of advanced student work and basic working knowledge of distribution and life as a media artist. Promotes further theoretical understanding of video as an art form. May be repeated up to 9 total credit hours. Prereq., ARTS 4346 or instructor consent. Same as ARTS 5446 & FILM 4440.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5126 (3) Graduate Digital Art 2

Same as ARTS 4126. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5176 (3) Graduate New Directions in Digital Art

May be repeated up to 9 total credit hours. Same as ARTS 4176. Prerequisites: Restricted to Graduate Students only.

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College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5196 (3) Graduate Advanced Photo-Imaging

Same as ARTS 4196.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5226 (3) Graduate Advanced Computer Imaging

May be repeated up to 6 total credit hours. Prereq., ARTS 5126. Same as ARTS 4226.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5236 (3) Graduate Electronic Arts Survey 2

Same as ARTS 4236.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5246 (3) Graduate Beginning Video Production

Same as ARTS 4246. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5316 (3) Graduate History and Theory of Digital Arts

Same as ARTS 4316. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5346 (3) Graduate Intermediate Video Production

Prereq., ARTS 4246/5246. Same as ARTS 4346. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5446 (3) Graduate Advanced Video Production

Same as ARTS 4446. Prerequisites: Restricted to Graduate Students only.

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ARTS-2095 (3) Ceramics 2: Wheelthrowing

Introduces techniques of wheel-thrown forms as they relate to function and nonfunction. Explores various glazing and firing methods. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2104 (3) Colossal Objects (Sculpture and Post-Studio Practice)

Focuses on the conception, design and production of art works that are larger than human scale. Each object will be the result of individual and team design collaboration. This course primarily focuses on sculpture constructed and engineered from metal although other materials are welcome. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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ARTS-2126 (3) Digital Art 1

An introductory course in the use of the personal computer to create and process images in the visual arts. Prereq., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2171 (3) Photography 1

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Credit not granted for this course and ARTS 1171. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2184 (3) Nothing Flat: Project a Week (Sculpture & Post-Studio Practice)

Provides students the opportunity to work with a range of sculptural materials through a series of quick projects (e.g. installation, objects, writing). Students will learn to generate ideas quickly, engage issues and formats particular to sculpture, and produce a wide range of work over 15 weeks. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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ARTS-2191 (3) Photography 2

Explores more sophisticated technical and conceptual skills to the creative process. Prereq., ARTS 2171. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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[Photography](#)

ARTS-2202 (3) Figure Painting

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-2244 (3) Drawing for Sculpture (Sculpture and Post-Studio Practice)

Explores and examines many relationships between sculpture and drawing. Projects will explore 2-D drawing and mixed media projects through the lens of sculptural practice. Scale, materials, and styles will be researched along with topics such as the artists proposal, investigative processes, drawing and sculptural installations. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

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[Sculpture](#)

ARTH-2409 (3) Intro to Asian Art

Designed for those having no previous experience in the study of Asian art. Traces development of sculpture, painting, architecture, and the other visual arts of South Asia, the Far East, and Southeast Asia, with a synopsis of developments from 1453 through the 18th century. Approved for GT-AH1. Approved for arts and science core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTS-2504 (3) Basic Sculpture: Materials and Techniques

Introduces the basic properties of metal, wood, and mold making. Students will explore and demonstrate an understanding of basic fabrication methods involved in each element. Students will investigate both traditional and non-traditional working methods and will consider how materials and techniques inform sculptural concepts. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-2524 (3) Visual Thinking (Sculpture and Post-Studio Practice)

Explores ideas concerning the structure and nature of visual thinking and their relationship to the creative thought process. Also investigates form in terms of the organizing principles of three-dimensional design and its application to contemporary sculpture. Includes lecture and studio projects. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only. Prereq., ARTS 1010 & 1020. May be repeated up to 6 total credit hours. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3002 (3) Drawing Alternative Process/Materials

Continuation of Drawing 2. Offers creative possibilities in drawing and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated once. Prereq., ARTS 2002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTH-3009 (3) Critical Thinking in Art History

Through structured discussions, selected readings, and written assignments provides an understanding of how art history has evolved as an academic discipline and how art historians evaluate complex issues of style, form, content, and theory in the visual arts. Prereqs., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3017 (1-3) Special Topics in Studio Arts

Introduces timely subjects in studio arts courses that cannot be offered on a regular basis. Information concerning the topics in any given semester is available prior to pre-registration from the department of Art and Art History. May be repeated up to 7 total credit hours. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Art & Art History | Studio Arts

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTH-3029 (3) Medieval and Early Modern Visual Culture, A.D. 400 to A.D. 1750

Introduces students to the literature, history, culture and art of Europe and the Mediterranean basin from late antiquity through the early modern period. Interdisciplinary approach to visual culture focuses on uses of sacred religious practices and lay devotion. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3039 (3) Greek Art and Archaeology

Covers prehistoric Aegean through the fourth century B.C.E., considering architecture, pottery, painting, sculpture, and personal ornament. Societal customs such as use of space and burial patterns are considered as well as art and its uses, to help understand developments in Greek culture. Credit not granted for this course and FINE/CLAS 1009. Same as CLAS 3039. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3049 (3) Introduction to Roman Art and Architecture

Introduces the monuments and sites of the ancient Roman world from the foundation of Rome (753 B.C.E.) to Constantine (306-307 C.E.). Emphasizes the relationship of art, architecture, and artifacts to the political, social, and religious institutions of Italy and the provinces. Same as CLAS 3049. Credit not granted for this course and CLAS 1019. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3079 (3) Medieval Art Survey

Surveys the history of Western art from Constantine to around the year 1300, including Carolingian, Ottonian, Anglo-Saxon, Romanesque, and Gothic. Considers "Barbarian," Byzantine, and Islamic influences. Prereqs., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3085 (3) Ceramics 3

Deals with further exploration of techniques approached in ARTH 2085 and 2095. Students are encouraged to develop personal concentration in relation to medium. May be repeated up to 6 total credit hours. Prereqs., ARTS 2085, 2095. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-3097 (1-3) Special Topics---Non-Studio

Introduces timely subjects in fine arts that cannot be offered on a regular basis. Information concerning the topics offered in any given semester is available prior to preregistration from the Department of Art and Art History. May be repeated up to 7 total credit hours. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Restricted to Studio Arts (AASA) or Fine Arts-Studio (BASA and BFAS) or Fine Arts-Art History (BAAH) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTH-3109 (3) Art in Contemporary Society

Examines writings by philosophers and art critics as they address the question: What is art for? Readings focus on the 19th and 20th centuries, including current theories and some non-Western theories. Students are encouraged to develop their own responses to the question. Prereqs., ARTH 1300 and 1400. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3124 (3) Intervention, Exchange, and Duration (Sculpture & Post-Studio Practice)

Focuses on the production of works of art outside of the traditional studio, museum and gallery. Projects in this course will be designed to interrupt, intervene, co-opt, provide a service, exist for a defined amount of time, or engage a site, community or situation. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3191 (3) Photography 3

Continues the exploration of the possibility of individual photographic expression. Students are encouraged to discover and develop a personal position in relation to the medium. May be repeated up to 6 total credit hours. Prereq., Arts 2191. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-3196 (3) Photo-Imaging

Introduces techniques, software, and related concepts of digital photography as art. Emphasizes digital photography as a means to formal and expressive ends. Prereq., ARTS 1171.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-3202 (3) Painting Alternative Process/Materials

Continuation of Painting 2. Offers creative possibilities in painting and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTH-3209 (3) Art, Culture, and Gender Diversity, 1400--1600: Renaissance Art Out of the Canon

Studies the rising status of painting, sculpture, and architecture in Europe and how Europeans perceived non-Western art during the early modern period. Introduces history of race/ethnicity, gender, and class concerns embodied in the European category visual arts. Emphasizes new methods for interpreting history without imposing Eurocentric viewpoints. Prereqs., ARTH 1300 and 1400. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3210 (3) The Art of Renaissance Cities and Courts

Surveys the development and spread of humanist culture associated with the modern term "Renaissance Art" from c. 1400-1600, organized by location, artist, and patron. Presents significant works of paintings, sculpture and architecture at a number of major artistic centers including Florence, Rome, Venice, Fontainebleau, and Prague. Prereq., ARTH 1300 or 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3224 (3) Picturing Sculpture

Explores the many ways photography and other forms of imagery have been utilized in the field of sculpture. In this course, students will start from the sculptural, but those objects and installations will function as an intermediary to creating final work that will rest in the image. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-3236 (3) Electronic Arts Survey

Explores the development of video as an art form through tape screenings, readings, lectures, and discussions. Prerequisite for further studies in video production.

College of Arts & Sciences | Art & Art History | Media Arts

ARTH-3309 (3) European Art, 1300--1800

Covers high visual culture in Europe from 1300 to 1800. Discussions of this concept with its implications for aesthetics, semiotics, and ideology form the core of the course. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

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ARTS-3354 (3) Bend, Build, Burn: Sculpture in Wood

Focuses on the production of works of art in wood. Class projects explore building, bending, and burning with wood. This course primarily focuses on sculptural constructed objects although possibilities of installation, site-specific, and public art will also be explored. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

[College of Arts & Sciences](#) | [Art & Art History](#) | [Sculpture](#)

ARTS-3384 (3) Fleeting and Found: Ephemeral Sculpture

Focuses on creating sculpture projects which are ephemeral and temporary. Themes of process, lifespan, migration, tension, entropy, and degradation will be explored. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

[College of Arts & Sciences](#) | [Art & Art History](#) | [Sculpture](#)

ARTS-3403 (3) Intaglio and Relief 1

Introduces the study and experimentation of intaglio and relief processes in black and white, color, and possible photo imagery. May be repeated up to 6 total credit hours. Taught with ARTS 4403/5403. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) | [Art & Art History](#) | [Printmaking](#)

ARTS-3413 (3) Lithography 1

Introduces the study of stone and metal plate lithography, emphasizing individual creative development in black and white and further development in color printing processes. May be repeated up to 6 total credit hours. Not available to freshmen. Taught with ARTS 4413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTH-3419 (3) Modern Art Survey

Surveys the loss of beauty in art and discusses whether or not that loss is regrettable. Questions the function and historical meaning of modern and postmodern art: is it all hype and strategic positioning by artists for fame and fortune? Is it serious? Are the fine arts still fine? Prereq., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3423 (3) Screen Printing 1

Introduces the study of silkscreen techniques, emphasizing creativity, individual development, and experimentation in contemporary silkscreen processes. May be repeated up to 6 total credit hours. Not available to freshmen.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-3504 (3) Sculpture 3: Experiments 1

Explores materials, methods, and techniques through a series of assignments emphasizing individual ideas and their relationship to contemporary aesthetics. Prereqs., ARTS 2504 and 2524. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTH-3509 (3) American Art

Surveys American art and material culture from the precolonial era to the present day. Considers cultural and artistic interaction, ethnic expressions, patronage, European and non-Western influences, and the struggle to develop a uniquely American artistic identity. Prereqs., ARTH 1300 and 1400. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3514 (3) Sculpture 3: Experiments 2

Explores individual concepts and ideas and their relationship to contemporary issues and aesthetics. a series of assignments are worked out with the instructor based on individual interest. Prereq., ARTS 3504. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTH-3519 (3) Modern Architecture, 1780--1960

Introduces the major movements and developments in European and American architecture from Neoclassicism to Postmodernism. Considers the impact of exhibitions, expositions, and vernacular architecture. Prereqs., ARTH 1300, 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3539 (3) Contemporary Art

Examines contemporary art and theory in the transition from modern to postmodern expression. Discusses painting, sculpture, installations, performance, video, photography, and architecture with attention to historical context and criticism. Considers neoexpressionist, feminist, minority, political, and public art. Prereq., one 3000-level art history course. Same as ARTH 5539. Formerly ARTH 4539.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3614 (3) Lost in Space: Installation Art

Students in this course will learn how to develop ideas in relation to installation art, exhibition spaces, and explore practical skills to help carry out their ideas. This course will include lectures, readings and discussion, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences | Art & Art History | Sculpture

ARTH-3619 (3) The Arts of China

Surveys Chinese painting, sculpture, architecture, and other arts from neolithic to modern times. Prereqs., ARTH 1300, or 1400, or 2409, or HIST 1608.

College of Arts & Sciences | Art & Art History | Art History

ARTH-3629 (3) The Arts of Japan

Offers an appreciation and chronological development of the arts of Japan. Emphasizes the arts of Shintoism and Buddhism as well as the particular Japanese aesthetic from prehistoric times to the present. Prereq., one 3000-level art history course.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3702 (3) Special Focus in Painting and Drawing

Offers varied focus and special topics in painting, drawing, and related media to explore specialized directions and creative possibilities. Emphasizes experimentation. Content varies by semester; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2002 or 2202. Recommended prereq., ARTS 3002 or 3202.

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| College of Arts & Sciences | Art & Art History | Painting/Drawing |
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ARTH-3719 (3) History of Media Arts

Surveys the development of technological media both as sources of information and as art. Photography and related media, film, video, holography, and electronic imaging systems are surveyed as art and as technologies, emphasizing major artists, movements, exhibitions, and other productions in the 19th and 20th centuries. Prereqs., ARTH 1300 and 1400.

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| College of Arts & Sciences | Art & Art History | Art History |
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ARTH-3729 (3) Foundations in Latin American Art

Examines Latin America's cultural pluralism and art production beginning in pre-Columbian times and following through to the present. Considers the various functions of art as well as the relationship between objects, artists, and the cultures from which they come. Provides students with a broad frame of reference for many historical periods and equips students to evaluate art objects and their cultural contexts. Prereqs., ARTH 1300 and 1400.

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| College of Arts & Sciences | Art & Art History | Art History |
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ARTS-3841 (1-3) Undergraduate Independent Study---Photography

Reserved only for special projects in photography, not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 3191 or 4161. Requires a detailed proposal, instructor's signature, and departmental approval.

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| College of Arts & Sciences | Art & Art History | Photography |
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ARTS-3842 (1-3) Undergraduate Independent Study---Painting

Reserved for special projects in painting not offered in the curriculum. May be repeated up to 6 total credit hours. Prereqs., ARTS 3202 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

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| College of Arts & Sciences | Art & Art History | Painting/Drawing |
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ARTS-3845 (1-3) Undergraduate Independent Study---Ceramics

Reserved for special projects in ceramics not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 3085 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

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| College of Arts & Sciences | Art & Art History | Ceramics |
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ARTS-3847 (1-3) Independent Study

Reserved for special projects not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., detailed proposal, instructor sponsorship, and departmental approval.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-3906 (1-3) Undergraduate Independent Study---Video

Reserved for special projects in video not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 4246 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences | Art & Art History | Media Arts

ARTH-3929 (1-3) Special Topics in Art History

May be repeated up to 18 total credit hours when topic varies. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTS-3937 (1-6) Internship

Gives upper-division students the opportunity to work in public or private organizations on assignments relating to their career goals, and allows them to explore the relationship between theory and practice in their major. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-4002 (3) Advanced Drawing/Portfolio

Continuation of Drawing 3. Advanced studio class in drawing for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

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ARTS-4017 (1-3) Special Topics in Studio Arts

Introduces timely subjects in studio art courses that cannot be offered on a regular basis. Information on topics in any given semester is available prior to pre-registration in departmental office. May be repeated up to 18 total credit hours. Prereq., ARTS 1010, 1020 and Arth 1300 or 1400. Restricted to juniors and seniors. Same as ARTS 5017. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Seminars/Special Topics](#)

ARTS-4024 (3) Public Art: from Statues to the Internet

Focuses on the two areas 1) lecture/discussion, both based on political, historical and the aesthetic evolution regarding examples of public art and 2) current practice, in reference to how to use such information to generate new more innovative and original ideas regarding public art and its application. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Prereqs., ARTS 1010 and 1020. Recommended prereqs., ARTS 2504, 2524, and 3504. Same as ARTS 5024.

[College of Arts & Sciences](#) [Art & Art History](#) [Sculpture](#)

ARTH-4069 (3) Medieval Manuscripts

Surveys decorated books from late antiquity to the advent of the printing press. Examines the various roles manuscripts played within different medieval communities. Prereq., ARTH1300 and 1400. Same as ARTH 5069.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTS-4085 (3) Ceramics 4

Includes lectures, research, and experimentation in clay (wheel and hand construction techniques). May be repeated up to 12 total credit hours. Prereq., ARTS 3085. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-4087 (3) Selected Topics in Contemporary Art

Selectively studies significant areas of visual art of the last decade including major critical opinions. May be repeated up to 6 total credit hours. Prereq., 20 hours of ARTS or ARTH courses. Same as ARTS 5087.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTH-4089 (3) Romanesque and Gothic Art

Examines major artistic trends in Europe between the years 1000 and 1300, a period that witnessed, among others, the development of gothic cathedrals and the rise of the professional artist. Particular attention will be given to exchange with other cultures. Prereqs., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4095 (3) Special Topics in Ceramics

Designed for students majoring in ceramics. May be repeated up to 9 total credit hours. Taught with ARTS 5095. Prereq., ARTS 3085. Restricted to majors. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-4097 (1-3) Special Topics---Non-Studio

Introduces timely subjects in the visual arts that cannot be offered on a regular basis. Information concerning the topics offered in any given semester is available prior to preregistration from the fine arts department. May be repeated up to 6 total credit hours. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Same as ARTS 5097. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-4104 (3) Performance/Installation

Primarily focuses upon personal imagery as a live situation occurring in either an invented constructed reality or real environment. Work may be individual or group configuration, and may also take on the visual linguistic form of a solo performance or of a multimedia presentation. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. May be repeated up to 6 total credit hours with instructor consent. Same as ARTS 5104. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4107 (1-3) Special Topics

May be repeated up to 3 total credit hours.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTH-4109 (3) Ancient Italian Painting

Explores the problems, theories and methods for understanding the iconography, styles, topologies, contexts and techniques of fresco wall painting in ancient Italy from the 6th century B.C.E. to the 4th century C.E. Topics covered include Etruscan tomb paintings, late Republican and early imperial fresco paintings from Rome and Campania, and later Roman wall paintings, including the painted images in ancient catacombs. Previous coursework on ancient Italy or the history of pre-modern art is highly recommended. Recommended prereqs., CLAS/ARTH 1509, 3049. Same as CLAS 4109.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4117 (3) BFA Seminar

For students intending to pursue graduate work and/or a professional career in art. Emphasizes the development of a critical overview of their work and interests and how they relate to the problems of professional activity. Restricted to Studio Arts (AASF) majors only. Prerequisites: Restricted to Studio Arts (AASF) majors only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-4118 (3) Visiting Artist Program

Artists of national and international reputation, interacting with graduate and advanced undergraduate students, discuss their studio work at seminar meetings and at public lectures or events. Provides continuous input of significant developments and a comprehensive view of contemporary issues in the arts. May be repeated up to 6 total credit hours. Prereq., portfolio review for undergraduates and senior standing. Same as ARTS 5118. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Visiting Artist Program

ARTH-4119 (3) Roman Sculpture

Examines ancient Roman sculpture with emphasis on the display, iconography, and production of private and public monuments in the Roman Empire. Explores sculpture as evidence for historical developments, societal and gender attitudes, and state ideologies in the ancient Roman world. Recommended prereqs., ARTH 1300 or CLAS 1019. Same as CLAS 4119.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4126 (3) Digital Art 2

Offers studio experience using personal computer in the generation and processing of imagery in the visual arts. Prereq., ARTS 2126. Same as ARTS 5126. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4127 (3) Art from Nature

Provides an opportunity for advanced students to create nature based art. Studio work and/or appropriate on-site works will be generated through readings and individual and group experiences of nature. Prereq., one 4000 level studio course. Same as ARTS 5127.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTH-4129 (3) Aegean Art and Archaeology

A detailed study of the cultures of prehistoric Greece, the Cycladic Islands, and Crete, their art and archaeology, and their history within the broader context of the eastern Mediterranean, from earliest human settlement to the collapse of the Bronze Age at about 1100 B.C.E. Emphasis is on palace states. Same as ANTH/ARTH 4129, CLAS 5129.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4130 (3) Integrated Media

Encourages experimentation with media and integration of traditional areas of drawing, painting, sculpture, and photography. Covers two- and three-dimensional collage/assemblage, correspondence art, artist's books, site-specific, performance, audio, and video art. Same as ARTS 5130.

College of Arts & Sciences | Art & Art History | Integrated Arts

ARTH-4139 (3) Greek Vase Painting

A comprehensive overview of Greek vase painting, from prehistoric through the fourth century B.C.E. Emphasis is on learning the development of primary decorative styles and on refining skills of visual analysis, scholarly research, critical thinking, oral commentary, and written presentation. Same as CLAS 4139.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4149 (3) Greek Cities and Sanctuaries

Examines Greek architecture in context, from the ninth century B.C.E. into the Hellenistic period, considering the use of space, both in religious and in civic settings, and using texts as well as material culture. Emphasis is on developing analytical skills. Same as CLAS 4149.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4154 (3) Metalsmithing 1

Introduces students to the fundamental techniques used in metalsmithing, including cold and hot fabrication techniques, forming, and coloring. Through projects, discussions, readings, and demonstrations, students will learn how to create, analyze, understand and critique contemporary metalwork. Projects will focus on design and concept development, while enhancing students' technical and problem-solving skills. Prereqs., ARTS 1010, 1020, at least one ARTS 2000-level course, and at least one ARTS 3000-level course. Same as ARTS 5154.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4161 (3) Photography 4

Explores advanced techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. May be repeated up to 12 total credit hours. Prereq., ARTS 3191. . Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTH-4169 (3) Topics in Ancient and Classical Art and Archaeology

In-depth consideration of an aspect of ancient Mediterranean culture. Topics vary; they may include ancient wall painting, Greek sculpture, artists and patrons, the ancient Near East, Egyptian art and archaeology, or Etruscan art and archaeology. Maybe repeated up to 9 total credit hours providing the topics are different. Same as CLAS 4169. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4171 (3) New Directions in Photography

Investigates the use of the photographic image in new, antique, or nonstandard ways including nonsilver, photosculpture, various color processes, photolanguage, photoinstallations, electronic media, performance, filmmaking, electrostatic art (copy machine), photobooks, photocollage, and audio/visual art. Course content changes each semester. May be repeated up to 9 total credit hours. Prereq., ARTS 3191 or equivalent. Same as ARTS 5171. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-4176 (3) New Directions in Digital Art

Investigates the use of digital art in various contexts including digital narrative, web publishing, Internet art, multimedia performance, animation, conceptual art, information art, sound art, language art, and network installations. May be repeated up to 9 total credit hours. Prereqs., ARTS 2126 and 4316/5316 or instructor consent. Same as ARTS 5176. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

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ARTH-4189 (3) Medieval Art

Focuses on one area of medieval art. Topics vary, but may include Carolingian, Ottonian, Romanesque, or Gothic art. Emphasizes critical thinking, methods of scholarly research, and development of writing skills. Prereqs., ARTH 1300 and 1400.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTS-4196 (3) Advanced Photo-Imaging

Offers an in-depth exploration of digital imaging in the context of the history, aesthetics, and tradition of photography as contemporary art. Emphasis is on digital manipulation, output, and individual growth and development. Prereq., ARTS 2191 or advanced standing in photography or media arts. Same as ARTS 5196.

[College of Arts & Sciences](#) [Art & Art History](#) [Media Arts](#)

ARTH-4199 (3) Roman Architecture

Examines the designs, functions, and construction methods of ancient Roman towns, temples, baths, houses, and civic structures, as well as utilitarian structures including roads and aqueducts. Emphasizes Roman architectural forms and spaces as vehicles for political propaganda and empire consolidation. Same as CLAS 4199.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTS-4202 (3) Advanced Painting/Portfolio

Continuation of Painting 3. Advanced studio class in painting for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTH-4209 (3) Classical Archaeological Field Methods

Offers experiential learning in theories and methods of field excavation at the Villa of Maxentius in Rome. Applies methods for stratigraphic excavation, electronic surveying with Gis, ceramic analysis, numismatic analysis, architectural construction materials and methods, artifact conservation and data processing and documentation. Offered abroad only. May be repeated up to 6 total credit hours. Coreq., ARTH 4219 for first 3 credit hours. Recommended prereqs., CLAS/ARTH 1509, 3049. Same as CLAS 4209 and 5209.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4219 (3) Maxentius and the City of Rome

Combines seminar discussion and site visits in Rome and Tivoli to understand the excavations at the Villa of Maxentius and its artifacts in the broader contexts of Roman architectural development, late Roman art, and late imperial Roman history. Offered abroad only. Must be taken concurrently with CLAS/ARTH 4209 or CLAS 5209. Recommended prereqs., CLAS/ARTH 1509, 3049. Same as CLAS 4219.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4226 (3) Advanced Computer Imaging

Explores advanced techniques and concepts of digital image-making. Emphasizes the creative application of computer imaging in the production of visual art through individual projects. Prereq., ARTS 4126. Restricted to junior or senior ARTS or ARTH majors. Same as ARTS 5226.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4236 (3) Electronic Arts Survey 2

Continuation of electronic arts survey. Explores the development of video as an art form. Prerequisite for further studies in video production. Same as ARTS 5236.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4246 (3) Beginning Video Production

Presents a studio course on basic single camera video production strategies and Presents a studio course on basic single camera video production strategies and concepts. Through class screenings, projects, demonstrations, discussions, and readings, students gain an introductory familiarity with camera, lighting, sound, editing and the organization and planning involved in a video

project. Explores a basic theoretical understanding of video as an art form and its relationship to television, film, art, history, culture. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400 or instructor consent. Same as ARTS 5246 and FILM 4240. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTH-4269 (3) Art and Archaeology of the Ancient Near East

Examines civilizations of the Iran-Iraq region from the rise of urbanism in Mesopotamia through the era of the first 'world empire,' Achaemenid Persia. Emphasizes the material record of religious and state institutions of the ancient Near East, especially monuments that illustrate concepts of kingship. Explores notions of style, symbolism, visual rhetoric, text-image synthesis, patronage, creativity, and roles of artists. Recommended prereq., CLAS/ARTH 1509. Same as CLAS 4269. Approved for arts and science core curriculum: human diversity.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4279 (3) Michelangelo (1475--1564)

Focuses on Michelangelo's long career, marked by outstanding achievements in sculpture, painting, architecture, and poetry. Emphasizes his projects and achievements in light of 16th century artistic theory, including relationships to his contemporaries in the arts and literature. Prereq., one 3000-level art history course. Same as ARTH 5279.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4309 (3) Neoclassicism and Romanticism: 1760--1840

Surveys painting and sculpture in England and France from the last quarter of the 18th century through the first half of the 19th century. Prereq., one 3000-level art history course. Same as ARTH 5309.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4316 (3) History and Theory of Digital Art

Explores the history and theory of digital art. Discussion topics include the emergence of Internet art, hypertext, new media theory, online exhibitions, web publishing, virtual reality, and the networked interface. Includes collaborative and individual projects. Prereq., ARTS 2126 or instructor consent. Same as ARTS 5316. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTH-4319 (3) European Art from 1830 to 1886

Surveys the major movements in painting in France and England from the Revolution of 1830 to the impressionist crisis of 1886. Emphasizes and discusses painting and major expressions in sculpture and architecture. Same as ARTH 5319.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4329 (3) Modern Art 1

Provides an in-depth study of the fin de siècle, stressing postimpressionism, art nouveau, and symbolism. Concludes with fauvism in France and the expressionist movement in Germany. Prereq., one 3000-level art history course. Same as ARTH 5329. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4339 (3) Modern Art 2

Begins with early Picasso and cubism, including analytic and synthetic cubism and emphasizing the various isms of the 20th century. Also studies Italian futurism, de Stijl and the Bauhaus, dada, and surrealism. Prereq., one 3000-level art history course. Same as ARTH 5339.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4346 (3) Intermediate Video Production

Continuation of beginning video production. Extends the knowledge of single camera video production strategies and concepts. Expands the concept of montage (editing) and strategies to develop a video project through class screenings, projects, discussions, and readings. Furthers theoretical understanding of video as an art form. Prereq., ARTS 4246 or instructor consent. Same as ARTS 5346 and FILM 4340.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4403 (3) Intaglio and Relief 2

Continues the study and experimentation of intaglio and relief processes in black and white, color, digital imagery, and nontoxic processes as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3403. Taught with ARTS 3403/5403. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4413 (3) Lithography 2

Continues the study of stone and metal plate lithography, emphasizing individual creative development in black and white, and further development in color printing processes. In addition, digital imaging and nontoxic processes are emphasized as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3413. Taught with ARTS 3413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTH-4419 (3) The Arts of Colonial Mexico and Peru

Examines important works, artists, and themes that comprise the artistic production of colonial Latin America. Focuses on the intermingling, convergence, and at times the clash of European,

Amerindian, and African cultures, which established the foundation of Latin America's pluralism. Prereqs., ARTH 1300 and 1400. Recommended prereq., ARTH 3729.

College of Arts & Sciences | Art & Art History | Art History

ARTS-4423 (3) Screen Printing 2

Introduces advanced screen printing technology, emphasizing individual creativity and the ability to resolve problems of two-dimensional form. May be repeated up to 12 total credit hours. Prereq., ARTS 3423.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4433 (3) Alternative Printmaking (Non-Toxic)

Introduces computer-generated imaging and developing ideas as related to traditional forms of printmaking. Emphasizes original development of ideas and skills involved in learning advanced printing processes in lithography and intaglio media. May be repeated up to 12 total credit hours. Same as ARTS 5433. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-4444 (6) Art and Rural Environments Field School

Puts students in touch with various rural landscapes in Colorado, including the High Plains region near the town of Last Chance. This course takes place off campus each summer during maymester. This course focuses on site-based approaches to art creation and is designed as an experiential course, meaning that students learn through the experience of place, and then by the process of making. After introductions to each site, students will be responsible for a site interpretation piece utilizing various mediums including photography, drawing, land art, and collaboration. Prereqs., ARTS 1010 and 1020. Recommended prereq., ARTS 2504. Same as ARTS 5444.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-4446 (3) Advanced Video Production

Continuation of intermediate video production. Explores advanced technical skills to control the quality of the video image in production, postproduction, and distribution. Emphasizes self-motivated independent projects, conceptual realization of advanced student work and basic working knowledge of distribution and life as a media artist. Promotes further theoretical understanding of video as an art form. May be repeated up to 9 total credit hours. Prereq., ARTS 4346 or instructor consent. Same as ARTS 5446 & FILM 4440.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-4453 (3) Monotype Printing

Introduces monotype printing, with the uniqueness and diversity of its methods of producing art. The process uses some of the best qualities of painting, print making, and drawing. Emphasizes creative individual development, along with processes inherent to this media. May be repeated up to 6 credit hours. Same as ARTS 5453.

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ARTH-4459 (3) Precolumbian Art of Mesoamerica

Introduces students to the art, architecture, and cultures of Mesoamerica--a region that encompasses modern-day Mexico, Guatemala, Belize, and parts of El Salvador, and Honduras. Focuses on major Pre-Columbian art objects and monuments to learn about the societies and cultures from which they came. Also considers the various roles that the visual arts and architecture played in these societies. Covers Olmec through Aztec civilizations. Prereqs., ARTH 1300 and 1400. Recommended prereq., ARTH 3729.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTS-4504 (3) Advanced Sculpture Studio

Students in this course will be required to complete 3 projects, participate in group critiques of projects, produce a slide presentation on a contemporary artist whose work/practice fits within the theme of the course, and prepare a final portfolio. Studio work and demonstrations will be augmented by readings and discussions on contemporary art. May be repeated up to 6 total credit hours. Prereqs., ARTS 3504 and 3514. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Sculpture](#)

ARTH-4559 (3) Twentieth-Century Architecture

Examines the major movements and development in European and American architecture, 1900-1960's. Considers the major styles, as well as cultural interactions, race/ethnicity, gender and class concerns as they relate to both the practice and profession of architecture. Prereqs., ARTH 1300,1400.

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ARTH-4569 (3) United States Architecture

Examines architecture as it developed in the area now defined as the continental United States from early cultures to the present. Considers the major styles and issues of cultural interaction, race/ethnicity, gender and class concerns as they relate to the practice, theory, and profession of architecture. Prereq., ARTH 1300 and 1400.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4629 (3) Degas Seminar

Introduces current Degas studies and research methods by drawing upon recent books, exhibition catalogues, and scholarly journal articles. Fulfills requirement for ARTH 4919, Capstone Seminar.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4639 (3) Manet Seminar

Introduces current Manet studies and research methods by drawing upon recent books, exhibition catalogues, and scholarly journal articles. Fulfills requirement for ARTH 4919, Capstone Seminar.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4649 (3) Impressionism & Post-Impressionism

Fosters creative study of the background and foundation in modern art. Considers 19th-century European painting and, to a lesser degree, sculpture, in relation to social, cultural, and political history from 1863 to 1900. Focuses on France, but gives attention to other countries as well.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4669 (3) Romanticism & Realism

Fosters creative study of the background and foundation of modern art. Considers 19th-century European (and, to a lesser degree, American) painting and sculpture in relation to social, cultural, and political history from 1789 (the French Revolution) to 1863 (the Salon des refuses). Focuses on France, but gives attention to other countries as well.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4679 (3) Romanticism Seminar

Introduces current Romanticism studies and research methods by drawing upon recent books, exhibition catalogues, and scholarly journal articles.

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ARTH-4689 (3) Post-Impressionism Seminar

Introduces current Post-Impressionism studies and research methods by drawing upon recent books, exhibition catalogues, and scholarly journal articles.

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| College of Arts & Sciences | Art & Art History | Art History |
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ARTS-4717 (1-3) Studio Critique

Consists of consultations with faculty on individual studio problems and projects. May be repeated up to 6 total credit hours. Prereqs., junior standing and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Art & Art History | Seminars/Special Topics |
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ARTH-4739 (3) The Intellectual Roots of Italian Renaissance Art

Studies critical issues raised in the literature on art, focusing on Renaissance interpretations of key historical themes such as imitation and decorum. Carefully examines the language used in primary sources (available in English). Prereq., one 3000-level art history course.

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| College of Arts & Sciences | Art & Art History | Art History |
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ARTH-4749 (3) Italian Renaissance Art: Studies in the Exchange between Theory and Practice

Addresses how artists developed new compositional procedures, graphic techniques, and audiences, and how these procedures were theorized in an age when artists' intellectual and social status rose dramatically. Explores reception of new graphic technology. Studies specific commissions and primary texts in depth. Prereq., one 3000-level art history course. Same as ARTH 5749.

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ARTH-4759 (3) 17th Century Art and the Concept of the Baroque

Surveys 17th century European painting, sculpture, and architecture, along with a critical study of artistic theory, artistic institutions (such as the Academiadi San Luca and the Academie Royal), and the concept of the term baroque. Prereq., one 3000-level art history course. Same as ARTH 5759. Approved for arts and sciences core curriculum: literature and the arts.

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ARTH-4769 (3) Gender Studies in Early Modern Visual Culture

Examines 15th and 16th century European ideas about women from a variety of feminist perspectives. Focuses on recent contributions to history of women as they intersect with the visual arts. Prereq., one 3000-level art history course. Same as ARTH 5769 and WMST 4769. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4779 (3) Multicultural Perspectives on New Mexican Santos

Reflects upon the question: In what sense were the regional variants of European devotional images the effects of meaningful cultural interaction? Evidence considered includes oral traditions, pueblo pottery, and painting, emphasizing interpretations that respect rights of communities to maintain privacy. Prereqs., ARTH 1300, 1400, and one 3000-level art history course. Same as ARTH 5779.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4819 (3) Contemporary Chicano Art

Examines Chicano art world, focusing on contemporary scene. Lecture/discussion/dialogue explored through readings and visual presentations including: video, guest lecturers, and visits to local spaces. Prereq., any 3000-level art history course or instructor consent.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4909 (1-3) Independent Study---Art History

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4919 (3) Capstone Seminar: Topics in Art History

Seminar course dealing with selected areas or problems within the history of art. Consult current online Schedule Planner for seminar topic. May be repeated up to 7 total credit hours. Prereq., instructor consent. Restricted to Art History Majors only. Prerequisites: Restricted to Art History (AAAH) majors only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4929 (1-3) Special Topics in Art History

May be repeated up to 18 total credit hours when topic varies. Same as ARTH 5929.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4939 (3-6) Art Museum Internship

Focuses on opportunities at the Denver Art Museum, working with individual curators and master teachers in selected areas, such as audience interpretation, interpretive research files, and public school curriculums. Introduces students to the professional culture and activities of art museums. May be repeated up to 6 total credit hours. Prereqs., ARTH 1300 and 1400. Same as ARTH 5939.

College of Arts & Sciences | Art & Art History | Art History

ARTH-4959 (3) Art History Honors Thesis

May be elected during the final semester. Consists of a substantial, original written thesis. Requires faculty sponsorship. Does not guarantee a student will receive honors.

College of Arts & Sciences | Art & Art History | Art History

ARTF-5000 (3) Advanced Digital Postproduction

Class explores the advanced practices and aesthetics of computer-based moving-image art editing. Topics include how to edit and manage a postproduction cycle, how to use digital editing systems and capabilities such as compositing, digital audio, and optical effects treatments. Prereqs., FILM 1502,2000 or 2300, 2500, and 3400 or 3600, or instructor consent. Cannot be taken simultaneously with FILM 3400 or 3600. Same as FILM 4000.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5003 (3) Film and Fiction

Explores similarities and differences between literature and film as narrative arts. Studies novels, short stories, and plays and films made from them. Examines problems in point of view, manipulation of time, tone, structure, and setting. Same as FILM 4003. COML 5003 and ARTF 5003 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5004 (3) Topics in Film Theory

Provides topic-centered analyses of controversial areas in film theory. Students read extensive materials in the topic area, analyze and summarize arguments as presented in the literature, write "Position" papers, and make oral presentations in which they elaborate their own arguments about specific assigned topic, establishing critical dialogue with the primary materials. May be repeated up to 6 total credit hours. Prereq., FILM 3051 or instructor consent. Restricted to senior FILM, FMST, or HUMN majors. Same as FILM 4004. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

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ARTF-5010 (1-3) Topics in Film Studies-Production

Prepares students for advanced Film Studies production courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as FILM 4010. Prerequisites: Restricted to Graduate Students only.

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ARTF-5013 (3) Film, Photography and Modernism

Provides interdisciplinary study of film, photography, and modernism, focusing on issues such as dystopia, alienation, sexuality, subjectivity, and self-referentiality. Photographs by Stieglitz, Strand, Weston, Evans, Cartier-Bresson, Kertesz, and Moholy-Nagy. Films by Dziga Vertov, Eisenstein, Resnais, Antonioni, Bergman, Bunuel, and Bertolucci. Prereq., FILM 1502. Recommended prereq., FILM 3051. Same as FILM 4013.

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ARTS-5017 (1-3) Special Topics in Studio Arts

May be repeated up to 6 total credit hours. Same as ARTS 4017. Prerequisites: Restricted to Graduate Students only.

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ARTF-5021 (3) Directing/Acting for the Camera

Offers an intensive workshop that provides students with experience directing dramatic material, acting before a camera, and interpreting or adopting dramatic material for film. No experience in directing or acting required. Attendance, research, and papers required. Recommended prereq., FILM 1502. Same as FILM 4021. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5023 (3) Topics in International Cinema

Focuses on major international filmmakers who have had a decisive impact on world cinema. Students will learn how directors create their own innovative body of work with specific formal and thematic patterns, and will also learn to place such work within multiple frameworks that will cover film history, theory, aesthetics, philosophy, and social and cultural analysis. May be repeated up to 6 total credit hours provided topics are different. Prereq., FILM 1502. Recommended prereqs., FILM 3051 and 3061. Same as FILM 4023. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5024 (3) Advanced Research Seminar

Focuses on a specific topic, director, or genre chosen by the professor. Research skills and critical thinking are emphasized. With faculty guidance, students determine individual projects and present them to the class. Class participation is mandatory. Each student submits a thorough and original research paper for a final grade. May be repeated up to 6 total credit hours. Prereq., FILM 1502. Recommended prereqs., FILM 3051, 3061. Same as FILM 4024. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTS-5024 (3) Public Art: from Statues to the Internet

Focuses on the two areas 1) lecture/discussion, both based on political, historical and the aesthetic evolution regarding examples of public art and 2) current practice, in reference to how to use such information to generate new more innovative and original ideas regarding public art and its application. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Same as ARTS 4024. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTF-5030 (3) Visiting Filmmakers Seminar

Examines creative issues in contemporary cinema art. Graduate and advanced undergraduate students explore filmmaking ideas with guest artists within a seminar setting. Filmmakers, videographers and programmers of national and international reputation, with an emphasis on "Experimental" practice, interact with graduate and advanced undergraduate students, and discuss their work at seminar meetings, public lectures or events. May be repeated up to 6 total credit hours. Recommended prereqs., FILM 1502 and 4453 or instructor consent. Same as FILM 4030.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5043 (1-3) Topics in Film Studies-Critical Studies

Prepares students for advanced Film Studies critical studies courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as FILM 4043. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTS-5075 (3) Graduate Ceramics

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-5087 (3) Selected Topics in Contemporary Art

Same as ARTS 4087. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5095 (3) Graduate Special Topics in Ceramics

Taught with ARTS 4095. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-5097 (1-3) Special Topics---Non-Studio

May be repeated up to 6 total credit hours. Same as ARTS 4097. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5104 (3) Graduate Performance/Installation

May be repeated up to 6 total credit hours with instructor consent. Same as ARTS 4104. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTF-5105 (3) Advanced Screenwriting

Introduces professional screenwriting, in the form of a creative writing workshop. Admission by portfolio (see film department). Students write scenes and scripts for short films, feature treatments, etc., and are graded on a final portfolio. Prereq., approved writing sample. Recommended prereqs., FILM 3051 and 3061. Same as FILM 4105.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTS-5107 (1-3) Special Topics

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTH-5109 (3) Ancient Italian Painting

Same as CLAS 5109.

College of Arts & Sciences | Art & Art History | Art History

ARTS-5117 (3) Graduate Art Seminar

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5118 (3) Graduate Visiting Artist Program

Same as ARTS 4118. Prerequisites: Restricted to Graduate Students only.

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ARTH-5119 (3) Roman Sculpture

Same as CLAS 5119. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTS-5126 (3) Graduate Digital Art 2

Same as ARTS 4126. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5127 (3) Art from Nature

Same as ARTS 4127.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5130 (3) Integrated Media

Same as ARTS 4130.

College of Arts & Sciences | Art & Art History | Integrated Arts

ARTH-5139 (3) Greek Vase Painting

Same as CLAS 5139.

College of Arts & Sciences | Art & Art History | Art History

ARTS-5140 (3) Integrated Arts Studio

Explores the creative process through a series of conceptually-based studio exercises. Students are encouraged to work across traditional media boundaries as they address themes such as identity, place, spirituality, politics, and consumerism. Includes individual and collaborative studio projects, as well as reading and writing about the course themes. May be repeated up to 9 total credit hours.

College of Arts & Sciences | Art & Art History | Integrated Arts

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ARTS-5150 (3) Graduate Integrated Arts

Investigates the conjunction of interdisciplinary concepts in the creation of art. Looks beyond traditional media to new sources for art-making. A curious intellect, combined with exceptional research skills, will be the basis for original writing and rigorous discussion.

[College of Arts & Sciences](#) [Art & Art History](#) [Integrated Arts](#)

ARTS-5154 (3) Metalsmithing 1

Introduces students to the fundamental techniques used in metalsmithing, including cold and hot fabrication techniques, forming, and coloring. Through projects, discussions, readings, and demonstrations, students will learn how to create, analyze, understand and critique contemporary metalwork. Projects will focus on design and concept development, while enhancing students' technical and problem-solving skills. Same as ARTS 4154. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Sculpture](#)

ARTH-5159 (3) Hellenistic Art and Archaeology

Examines art and archaeology from the period following the death of Alexander the Great (late fourth century B.C.E.) to the conquest of Greece by the Romans (middle second century B.C.E.). Same as CLAS 5159. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Art History](#)

ARTS-5161 (3) Graduate Photography

May be repeated up to 18 total credit hours.

College of Arts & Sciences | Art & Art History | Photography

ARTH-5169 (3) Topics in Ancient and Classical Art and Archaeology

Same as CLAS 5169.

College of Arts & Sciences | Art & Art History | Art History

ARTS-5171 (3) New Directions in Photography

May be repeated up to 9 total credit hours. Same as ARTS 4171. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Photography

ARTS-5176 (3) Graduate New Directions in Digital Art

May be repeated up to 9 total credit hours. Same as ARTS 4176. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTH-5179 (3) City of Athens

Explores in detail the buildings, sculptures, pots, foreign imports, and society of Athens, considering material culture of individuals as much as civic programs. Emphasis is on ways the textual and archaeological evidence complement and/or contradict one another. The course focuses on the Periklean period, considering ways in which it developed from earlier times and influenced later ones in Athens. Same as CLAS 5179.

College of Arts & Sciences | Art & Art History | Art History

ARTH-5189 (3) City of Rome

Explores in detail the architecture, sculptures, coins, frescos, and other material evidence alongside the political and social history of Augustan Rome. Emphasis is on ways in which the textual and archaeological evidence complement and/or contradict one another. Will explore the impact of the early imperial period on later Roman phases of urban design and image making in the capital city. Same as CLAS 5189. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTS-5191 (3) Digital Photography in Mongolia

Same as ARTS 4191.

College of Arts & Sciences | Art & Art History | Photography

ARTS-5196 (3) Graduate Advanced Photo-Imaging

Same as ARTS 4196.

College of Arts & Sciences | Art & Art History | Media Arts

ARTF-5200 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTS-5202 (3) Graduate Painting

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-5226 (3) Graduate Advanced Computer Imaging

May be repeated up to 6 total credit hours. Prereq., ARTS 5126. Same as ARTS 4226.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5236 (3) Graduate Electronic Arts Survey 2

Same as ARTS 4236.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5246 (3) Graduate Beginning Video Production

Same as ARTS 4246. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTH-5269 (3) Art and Archaeology of the Ancient Near East

Same as CLAS 5269.

College of Arts & Sciences | Art & Art History | Art History

ARTS-5316 (3) Graduate History and Theory of Digital Arts

Same as ARTS 4316. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5346 (3) Graduate Intermediate Video Production

Prereq., ARTS 4246/5246. Same as ARTS 4346. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5403 (3) Graduate Intaglio and Relief

May be repeated up to 18 total credit hours. Taught with ARTS 3403/4403. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5413 (3) Graduate Lithography

May be repeated up to 18 total credit hours. Taught with ARTS 3413/4413. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5423 (3) Graduate Screen Printing

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5433 (3) Graduate Alternative Printmaking (Non-Toxic)

May be repeated up to 12 total credit hours. Same as ARTS 4433. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5444 (6) Art and Rural Environments Field School

Puts students in touch with various rural landscapes in Colorado, including the High Plains region near the town of Last Chance. This course takes place off campus each summer during maymester. This course focuses on site-based approaches to art creation and is designed as an experiential course, meaning that students learn through the experience of place, and then by the process of making. After introductions to each site, students will be responsible for a site interpretation piece utilizing various mediums including photography, drawing, land art, and collaboration. Same as ARTS 4444. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5446 (3) Graduate Advanced Video Production

Same as ARTS 4446. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts



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ARTF-5453 (3) Elective Affinities: Avant-Garde Film and the Arts

Traces the history and aesthetics of avant-garde/ experimental films in light of similar ideas found in the other arts, particularly painting, poetry, photography and music. Topics covered include Dada and the early avant-garde; surrealism and psychodramas; Brakhage and abstract expressionism; feminist arts and film since the 1980s; the idea of the sublime in painting, music, and film; landscape in painting, photography, and film; post-modernism and the cinema; queer theory, gender/identity politics, and aesthetics of recent films; and specific multiple disciplinary artists such as Andy Warhol, Michael Snow, Helen Levitt, and Gunvor Nelson. Prereq., FILM 1502. Same as FILM 4453. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTS-5453 (3) Graduate Monotype Printing

Same as ARTS 4453. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Printmaking](#)

ARTF-5500 (3) Cinema Production 2

Advanced exploration of creative cinema production through short production and post-production projects. Course focuses on the tactics and strategies of independent cinema production exploring either documentary, experimental, or narrative genres. May be repeated up to 9 total credit hours. Prereq., FILM 3400. Same as FILM 4500. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTS-5504 (3) Graduate Sculpture

May be repeated up to 18 credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5540 (3) Generative Art

Same as ARTS 4540.

College of Arts & Sciences | Art & Art History | Integrated Arts

ARTF-5600 (3) Creative Digital Cinematography

Explores creative approaches to single camera digital cinematography through short projects, discussions, and screenings. Relates creative photography and poetic approaches to the digital camera cinema. May be repeated up to 9 total credit hours. Prereqs., FILM 2000, 3600, or ARTS 4246 or 5346 or instructor consent. Restricted to FILM majors. Same as FILM 4600.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5604 (3) Colloquium in Film Aesthetics

Seminar for the serious round table discussion and critique of film as an art form, emphasizing development of appropriate verbal and written language skills for description of film. May be repeated upto 6 total credit hours. Same as FILM 4604. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5610 (3) Image-makers Graduate Seminar

Explores advanced graduate studio work in a seminar setting. The course will focus on the development of ideas and activities which advance creative image making. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5717 (1-3) Graduate Studio Critique

May be repeated up to 6 total credit hours with any single faculty member. Prereq., graduate standing and/or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTS-5717 (1-3) Graduate Studio Critique

May be repeated up to 6 total credit hours with any single faculty member. Prereq., graduate standing and/or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTF-5846 (1-3) Graduate Independent Study-Video

Participate in graduate independent study. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5857 (1-3) Graduate Independent Study

Participate in graduate independent study. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTS-5857 (1-3) Graduate Independent Study

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5901 (1-3) Graduate Independent Study---Photography

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Art & Art History | Photography

ARTH-5909 (1-3) Graduate Independent Study---Art History

May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-5929 (1-3) Special Topics in Art History

May be repeated up to 18 total credit hours. Same as ARTH 4929. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-5939 (3-6) Art Museum Internship

May be repeated up to 6 total credit hours. Same as ARTH 4939.

College of Arts & Sciences | Art & Art History | Art History

ARTH-5949 (3) Visiting Scholars Seminar

Brings speakers to campus to work with seminar students, usually four guest scholars per semester, subjects vary. Students read scholar's work and discuss methodological issues. Focuses on the research and insight of scholars who are currently shaping the field and defining research agendas. Required for all MA art history students, open to others. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-5959 (3) Introduction to Critical Theory for Visual Studies

Provides overview for critical theory from Marx to contemporary writers with emphasis on their relevance to visual studies. Addresses issues that underlie a wide range of academic discussion in arts and sciences. Foucault, Derrida, Said, Lacan and other authors will be subject to weekly discussions leading to research papers, presentations, and projects. Class fulfills critical theory requirement for MFA and MA students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-6150 (3) Critical and Theoretical Issues in Museums

Investigates key problems facing museum institutions and studies the staging and representation of historical knowledge, the ethics of collecting and display, the changing nature and uses of historical evidence, and relations between curatorial practice, collecting, and field work. Critically examines different approaches to museums and museology in various disciplines, both past and present. Prereq., MUSM 5011 or instructor consent. Same as MUSM 6150, HIST 6150, and ANTH 6150. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-6929 (3) Seminar: Theories of Art History

Provides a systematic critical overview of the development of art history as a discipline beginning with 18th century theories of aesthetics and ending with current interdisciplinary models of critical interpretation. Weekly readings, discussions, reports, and written papers constitute the format of this seminar in methodology. Topics vary from semester to semester. May be repeated up to 6 total credit hours within a term. Required for MA (art history) students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-6939 (3) Graduate Seminar: Open Topics in Art History

Subjects and topics vary. May be repeated up to 9 total credit hours. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTH-6949 (1) Master's Candidate for Degree

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Art History

ARTS-6957 (1-6) Master of Fine Arts Creative Thesis

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTF-6959 (1-6) Master's Thesis Film

Preparation, research, writing of critical studies Master's thesis in fulfillment of concurrent BAMA in Film. Prereq., ARTF 5004. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

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ARTH-6959 (1-6) Master's Thesis (Art History)

Prerequisites: Restricted to Graduate Students only.

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ARTH-6969 (1-6) Master's Project (Art History)

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ARTS-2202 (3) Figure Painting

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3002 (3) Drawing Alternative Process/Materials

Continuation of Drawing 2. Offers creative possibilities in drawing and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated once. Prereq., ARTS 2002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3202 (3) Painting Alternative Process/Materials

Continuation of Painting 2. Offers creative possibilities in painting and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3702 (3) Special Focus in Painting and Drawing

Offers varied focus and special topics in painting, drawing, and related media to explore specialized directions and creative possibilities. Emphasizes experimentation. Content varies by semester; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2002 or 2202. Recommended prereq., ARTS 3002 or 3202.

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ARTS-3842 (1-3) Undergraduate Independent Study--- Painting

Reserved for special projects in painting not offered in the curriculum. May be repeated up to 6 total credit hours. Prereqs., ARTS 3202 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

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ARTS-4002 (3) Advanced Drawing/Portfolio

Continuation of Drawing 3. Advanced studio class in drawing for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-4202 (3) Advanced Painting/Portfolio

Continuation of Painting 3. Advanced studio class in painting for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-5202 (3) Graduate Painting

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

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FILM-2000 (3) Beginning Filmmaking

Instructs students in making Super-8 films. Covers use of cameras and editing equipment, basic editing and splicing techniques, and analysis of pertinent films. May emphasize making personal, experimental films or making narrative sound films, according to instructor. Students need to purchase materials and rent the necessary equipment. The Film Studies Program maintains an equipment pool with modest rental fees for students needing equipment. Prereq., FILM 1502.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-2010 (3) Moving Image Computer Foundations

Provides students with artistic foundational hands-on experience in integrated use of media software in both the PC and Mac creative imaging making digital working environments. Includes fundamentals in general computer maintenance, creative and practical audio editing, image management and manipulation, and creative moving image practice. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-2300 (3) Beginning/Intermediate Filmmaking

Covers basic camera, editing, and splicing techniques for Super-8 film. Equipment is available at the film studies office for a modest rental fee. Prereq., FILM 1502.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-2500 (3) Introduction to Cinematography

Film production class focusing on developing a basic understanding of the aesthetics and principles of Cinematography. Through projects, screenings, and critiques, students learn creative camera lighting processes. Prereqs., FILM 1502 and 2000 or 2300 with an averaged combined grade in these two courses of 3.00, with a minimum overall GPA of 2.0. Restricted to FILM majors.

Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-2610 (3) Animation Production

Includes analysis of independent and experimental animation and an introduction to various animation techniques (object, line, collage, sand or paint on glass, Xerox, cameraless, pixellation, etc.). Students produce exercise films and a final film exploring these techniques. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 2500.

College of Arts & Sciences | Film Studies | Production

FILM-2900 (3) Lighting

Covers the basics of "Why you need lighting", color temp, as well as camera techniques, lighting theory, and lighting set-ups for still and motion picture film video. Emphasizes hands on as well as theory. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 1502.

College of Arts & Sciences | Film Studies | Production

FILM-3010 (1-3) Film Production Topics

Offers students both theoretical and practical experience in various specialized areas of cinematic production. Topics vary but include production in the documentary, fictional narrative, animation, computer animation, and experimental genres. May be repeated up to 9 total credit hours. Prereq., FILM 2000 or 2300. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3030 (3) Cinema Alternative Process

Explores alternative methods of film processing and filmic image manipulation. Through projects, film screenings, lectures and discussions students will learn fine arts approaches to creative control for the moving image. Prereq., FILM 1502, 2000, 2300 or 2500, or instructor consent. Restricted to BFA majors.

College of Arts & Sciences | Film Studies | Production

FILM-3081 (3) American Film in the 1980s and '90s

Examines the relationship between American films of the 1980s and '90s and their cultural and historical context. Includes films by Lynch, Stone, Solondz, Scott, Scorsese, Lee, Duyné, Lemmons, Tarantino, Altman. Controlled enrollment. Prereqs., FILM 1502, 3051, 3061, or instructor consent.

College of Arts & Sciences | Film Studies | Production

FILM-3211 (3) History of Russian Cinema

Surveys Russian cinema in historical and cultural context from early 20th century to the present. Prereq., FILM 1502 or RUSS 2221. Same as RUSS 3211. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Film Studies | Production

FILM-3400 (3) Cinema Production I

Exploration of creative cinema production through short production and post-production projects. A short final project will be required. Focuses on the tactics and strategies of independent cinema production, examining a variety of approaches to genre. Explores a range of film and digital technologies. Restricted to Film (FILM or FMST) majors only. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreqs., FILM 3515 and 3525. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3600 (3) Digital Post-Production Process

Through projects, discussions, and screenings, this class explores the practices and aesthetics of computer-based moving-image art editing. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3620 (3) Experimental Digital Animation

Instructs students in the making of digital animation. Covers the use of the exposure sheet, frame series manipulation, digital motion techniques, and an analysis of pertinent films. Emphasis is on digital tools to create individual, personal, or experimental animated works. Includes experimental techniques of transfer between digital media and film. Prereq., FILM 2610. Recommended prereqs., FILM 3030 and FILM 3400 or 3600.

College of Arts & Sciences | Film Studies | Production

FILM-3700 (3) Digital Audio Design

Studies and applies Pro Tools as a post-production audio toolbox. Applied techniques include sound recording, sound editing, field recording, foley, vocal recording and editing, plug-in generated sound creation, MIDI, basic scoring principles, audio sweetening, and audio mixing. Students will be required to complete regular editing assignments in addition to a final soundscape project. Prereq., FILM 2000 or 2300, 2500, and 3400 or 3600. Restricted to BFA majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3900 (1-3) Independent Study (Production)

May be repeated up to 6 total credit hours. Limit of 3 credit hours per semester.

College of Arts & Sciences | Film Studies | Production

FILM-3920 (3) Professional Seminar

Learning aspects of professional development in the field of cinema. Through workshops and assignments students will learn of the many opportunities found within all areas of production. Guests will help inform the students of professional options and expectations. Topics will include: crew work, fund raising, marketing festivals, low budget filmmaking, and alternative venues. Students may have an internship concurrently with this course. May be repeated up to 6 total credit hours. Recommended restriction to Film (FILM or FMST) majors only. Prereq., FILM 2500.

College of Arts & Sciences | Film Studies | Production

FILM-3940 (1-6) Film Studies Internship

Provides students with professional internship experiences with film, video, new media production companies, governmental agencies, production units, audio recording studios, and new media industries. Students will be responsible for securing their own internship position. May be repeated up to 9 credit hours. Prereqs., must be a BA or BFA film studies major with a CU GPA of at least 2.00, upper-division standing, and a 3.00 GPA as a BA or BFA film studies major. Offered pass/fail only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-4000 (3) Advanced Digital Postproduction

Through projects, discussions, and screenings, this class explores the advanced practices and aesthetics of computer-based moving-image art editing. Topics include how to edit and manage a postproduction cycle, how to use digital editing systems and capabilities such as compositing, digital audio, and optical effects treatments. Prereqs., FILM 1502, 2000 or 2300, 2500, and 3400 or 3600, or instructor consent. Restricted to BFA FMST majors. Cannot be taken simultaneously with FILM 3400 or 3600. Same as ARTF 5000.

College of Arts & Sciences | Film Studies | Production

FILM-4010 (1-3) Topics in Film Studies-Production

Prepares students for advanced Film Studies production courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as ARTF 5010.

College of Arts & Sciences | Film Studies | Production

FILM-4030 (3) Visiting Filmmakers Seminar

Examines creative issues in contemporary cinema art. Graduate and advanced undergraduate students explore filmmaking ideas with guest artists within a seminar setting. Filmmakers, videographers and programmers of national and international reputation, with an emphasis on "experimental" practice, interact with graduate and advanced undergraduate students, and discuss their work at seminar meetings, public lectures or events. May be repeated up to 6 total credit hours. Restricted to Film (FILM or FMST), Fine Art -Studio Arts (BASA), or Fine Arts-Creative Arts

(ARTC) majors only. Recommended prereqs., FILM 1502 and 4453. Same as ARTF 5030. Prerequisites: Restricted to Film (FILM or FMST), Fine Art -Studio Arts (BASA), or Fine Arts-Creative Arts (ARTC) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-4200 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Arts & Sciences | Film Studies | Production

FILM-4240 (3) Beginning Video Production

Presents a studio course on basic single camera video production strategies and concepts. Through class screenings, projects, demonstrations, discussions, and readings, students gain an introductory familiarity with camera, lighting, sound, editing and the organization and planning involved in a video project. Explores a basic theoretical understanding of video as an art form and its relationship to television, film, art, history, culture. Prereq., FILM 2000 and 2500 or instructor consent. Same as ARTS 4246.

College of Arts & Sciences | Film Studies | Production

FILM-4340 (3) Intermediate Video Production

Continuation of beginning video production. Extends the knowledge of single camera video production strategies and concepts. Expands the concept of montage (editing) and strategies to develop a video project through class screenings, projects, discussions, and readings. Furthers theoretical understanding of video as an art form. Prereq., FILM 4240 or instructor consent. Same as ARTS 4346.

College of Arts & Sciences | Film Studies | Production

FILM-4440 (3) Advanced Video Production

Continuation of intermediate video production. Explores advanced technical skills to control the quality of the video image in production, postproduction, and distribution. Emphasizes self-motivated independent projects, conceptual realization of advanced student work and basic working knowledge of distribution and life as a media artist. Promotes further theoretical understanding of video as an art form. May be repeated up to 9 total credit hours. Prereq., FILM 4340 or instructor consent. Same as ARTS 4446.

College of Arts & Sciences | Film Studies | Production

FILM-4500 (3) Cinema Production 2

Advanced exploration of creative cinema production through short production and post-production projects. Course focuses on the tactics and strategies of independent cinema production leading

to the completion of a BFA thesis project exploring either documentary, experimental, or narrative genres. May be repeated up to 6 total credit hours. Prereq., FILM 3400, 3515 and 3525. Same as ARTF 5500. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Film (FILM or FMST) majors only.

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FILM-1502 (3) Introduction to Film Studies

Introduces the technical and aesthetic principles behind the production, consumption, analysis, and interpretation of films. The purpose of this class is to help us understand and think about movies critically, as technological, cultural, and artistic products. We will study films in different contexts and discuss the importance of movies as cultural expression.

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FILM-2000 (3) Beginning Filmmaking

Instructs students in making Super-8 films. Covers use of cameras and editing equipment, basic editing and splicing techniques, and analysis of pertinent films. May emphasize making personal, experimental films or making narrative sound films, according to instructor. Students need to purchase materials and rent the necessary equipment. The Film Studies Program maintains an equipment pool with modest rental fees for students needing equipment. Prereq., FILM 1502.

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FILM-2003 (3) Film Topics

Varying topics on important individuals, historical developments, groupings of films, film directors, critical and theoretical issues in film. May be repeated up to 9 total credit hours, provided the topics are different.

[College of Arts & Sciences](#)
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FILM-2513 (3) Major Asian Filmmakers

Surveys the major Asian directors from China, India, Japan, Taiwan, and Vietnam. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

[College of Arts & Sciences](#)
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FILM-2613 (3) Exploring Good and Evil Through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in film. Same as FARR 2510. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
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FILM-3003 (3) Major Film Directors

Focuses on the work of a single director or a group of related directors. Course content varies each semester. Consult the online Schedule Planner for specific topic. May be repeated up to 12 total credit hours with departmental consent. . Non-majors need instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Topics

FILM-3013 (3) Women and Film

Examines the representation of women both in mainstream movies and in women's counter-cinema that resists traditional form, content, and spectator-text relationships of Hollywood models. Emphasizes work by key women filmmakers such as Margarethe Von Trotta, Lizzy Borden, and Yvonne Rainer, as well as readings in feminist film theory. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Film Studies | Topics

FILM-3033 (3) Color and Cinema

Examines color and cinema from historical, technological, aesthetic and theoretical perspectives. Students will be required to complete both creative and scholarly assignments.

College of Arts & Sciences | Film Studies | Topics

FILM-3043 (3) Topics in Critical Film Studies

Prepares students for advanced Film Critical Studies work. Subject matter varies from semester to semester. May be repeated up to 9 total credit hours, provided topics are different. Prereq., FILM 1502 or instructor consent. Restricted to FILM or FMST majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Topics

FILM-3503 (3) German Film Through World War II

History and theory of Weimar and Nazi film with sociocultural emphasis. Taught in English. Same as GRMN 3503.

College of Arts & Sciences | Film Studies | Topics

FILM-3513 (3) German Film and Society 1945-1989

Introduces issues in German society through film during the Cold War. Focus on East and West Germany, though some other German language films may be included. Emphasis is on reading films in their social, historical, and political contexts. Taught in English. Same as GRMN 3513.

College of Arts & Sciences | Film Studies | Topics

FILM-3563 (3) Producing the Film

Focuses on the production process of movie making from idea through distribution, analyzing each of the five phases involved, including the major players, function and problems inherent in each. Emphasizes the critical role the script plays in this process. Designed to give students a "map of the minefield" before venturing out on their own. Offered through Continuing Education.

College of Arts & Sciences | Film Studies | Topics

FILM-3603 (3) Sound and Vision

Historical and aesthetic overview of sound in relation to film, ranging from Hitchcock's *Blackmail* to Malick's *The Thin Red Line*. Pursues issues in sound design, mixing film scores, voiceovers, and film/sound theory in narrative, experimental, and documentary films. Among the filmmakers to be studied are Vertov, Welles, Altman, Brakhage, Lipsett, Eisenstein, Coppola, Scorsese, Stone, Leone, Godard, Nelson. Also explores a limited practicum using Pro Tools for sound design. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Topics

FILM-4003 (3) Film and Fiction

Explores similarities and differences between literature and film as narrative arts. Studies several novels, short stories, and plays and films made from them. Examines problems in point of view, manipulation of time, tone, structure, and setting. Same as ARTF/COML 5003.

College of Arts & Sciences | Film Studies | Topics

FILM-4013 (3) Film, Photography and Modernism

Provides interdisciplinary study of film, photography, and modernism, focusing on issues such as dystopia, alienation, sexuality, subjectivity, and self-referentiality. Photographs by Stieglitz, Strand, Weston, Evans, Cartier-Bresson, Kertesz, and Moholy-Nagy. Films by Dziga-Vertov, Eisenstein, Resnais, Antonioni, Bergman, Bunuel, and Bertolucci. Prereq., FILM 1502. Recommended prereq., FILM 3051. Same as ARTF 5013.

College of Arts & Sciences | Film Studies | Topics

FILM-4023 (3) Topics in International Cinema

Focuses on major international filmmakers who have had a decisive impact on world cinema. Students will learn how directors create their own innovative body of work with specific formal and thematic patterns, and will also learn to place such work within multiple frameworks that will cover film history, theory, aesthetics, philosophy, and social and cultural analysis. May be repeated up to 6 total credit hours provided topics are different. Prereq., FILM 1502. Recommended prereqs., FILM 3051 and 3061. Restricted to FILM, FMST, ARTC majors. Same as ARTF 5023. Prerequisites: Restricted to Film (FILM or FMST) or Fine Arts - Creative Arts (ARTC) majors only.

College of Arts & Sciences | Film Studies | Topics

FILM-4043 (1-3) Topics in Film Studies-Critical Studies

Prepares students for advanced Film Studies critical studies courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as ARTF 5043.

College of Arts & Sciences | Film Studies | Topics

FILM-4135 (3) Art and Psychoanalysis

Explores psychoanalytic theory as it relates to our understanding of literature, film, and other arts. After becoming familiar with some essential Freudian notions (repression, narcissism, ego/libido, dreamwork, etc.), students apply these ideas to works by several artists (e.g., Flaubert, James, Kafka, Hoffmann, and Hitchcock). Prereq., HUMN 2000 or junior/senior standing. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Film Studies | Topics

FILM-4453 (3) Elective Affinities: Avant-Garde Film and the Arts

Traces the history and aesthetics of avant-garde/ experimental films in light of similar ideas found in the other arts, particularly painting, poetry, photography and music. Topics covered include Dada and the early avant-garde; surrealism and psychodramas; Brakhage and abstract expressionism; feminist arts and film since the 1980s; the idea of the sublime in painting, music, and film; landscape in painting, photography, and film; post-modernism and the cinema; queer theory, gender/identity politics, and aesthetics of recent films; and specific multiple disciplinary artists such as Andy Warhol, Michael Snow, Helen Levitt, and Gunvor Nelson. Prereq., FILM 1502. Same as ARTF 5453.

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FILM-2005 (3) Movies and Screenplay Analysis

Analyzes the narrative structure of films and screenplays. Familiarizes students with the specific narrative characteristics of the classic motion picture, the three-act structure, and the multiple tasks involved in the process of adaptation. Dissects the form and structure of feature films through analyzing movies and screenplays. Prereq., FILM 1502.

[College of Arts & Sciences](#)
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FILM-2105 (3) Introduction to the Screenplay

Explores, through close reading and original student work, the form and structure of the screenplay from the writer's perspective. Students will begin by analyzing structural and character elements of such screenplays as Chinatown and Witness, then analyze screenplays of their choosing. Students will learn the basics of screenwriting form, then develop and write 10 minutes of an original screenplay. Prereq., FILM 1502. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

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FILM-3515 (2) Camera Workshop

Focuses on the development of independent cinema production and post-production skills. The instructor must certify students in order to continue with their BFA studies. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreq., FILM 3400. Restricted to BFA film studies majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-3525 (2) Cinema Editing Workshop

Focuses on the development of independent cinema post-production skills. The instructor must certify students in order to continue with their BFA studies. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreq., FILM 3400. Restricted to BFA film studies majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Workshops

FILM-4005 (3) Screenwriting Workshop: Short Form

A writing intensive course that focuses on the art of the short form screenplay. Students will complete regular writing exercises, presentations, and several short scripts. May be repeated up to 6 total credit hours. Prereq., FILM 3400 or 3600. BFAs only. Prerequisites: Restricted to sophomore, junior or senior FMST majors only.

College of Arts & Sciences | Film Studies | Workshops

FILM-4105 (3) Advanced Screenwriting

Introduces professional screenwriting, in the form of a creative writing workshop. Admission by portfolio (see film department). Students write scenes and scripts for short films, feature treatments, etc., and are graded on a final portfolio. Prereq., approved writing sample. Recommended prereqs., FILM 3051 and 3061. Same as ARTF 5105.

College of Arts & Sciences | Film Studies | Workshops

FILM-4505 (3) Screenwriting Workshop: Long Form

Creative writing workshop in which students plan and write a feature-length screenplay with emphasis on format, dialogue, characterization, and story. Prereqs., FILM 1502 and 2000.

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FILM-2002 (3) Recent International Cinema

Familiarizes students with current trends and major directors in international cinema. Students attend specific films screened in class and/or offered in the International Film Series, and read and write about these films. Prereq., FILM 1502 or 6 hours humanities courses involving critical writing.

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FILM-2003 (3) Film Topics

Varying topics on important individuals, historical developments, groupings of films, film directors, critical and theoretical issues in film. May be repeated up to 9 total credit hours, provided the topics are different.

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FILM-2005 (3) Movies and Screenplay Analysis

Analyzes the narrative structure of films and screenplays. Familiarizes students with the specific narrative characteristics of the classic motion picture, the three-act structure, and the multiple tasks involved in the process of adaptation. Dissects the form and structure of feature films through analyzing movies and screenplays. Prereq., FILM 1502.

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FILM-2010 (3) Moving Image Computer Foundations

Provides students with artistic foundational hands-on experience in integrated use of media software in both the PC and Mac creative imaging making digital working environments. Includes fundamentals in general computer maintenance, creative and practical audio editing, image management and manipulation, and creative moving image practice. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-2105 (3) Introduction to the Screenplay

Explores, through close reading and original student work, the form and structure of the screenplay from the writer's perspective. Students will begin by analyzing structural and character elements of such screenplays as *Chinatown* and *Witness*, then analyze screenplays of their choosing. Students will learn the basics of screenwriting form, then develop and write 10 minutes of an original screenplay. Prereq., FILM 1502. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

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FILM-2300 (3) Beginning/Intermediate Filmmaking

Covers basic camera, editing, and splicing techniques for Super-8 film. Equipment is available at the film studies office for a modest rental fee. Prereq., FILM 1502.

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FILM-2521 (3) Classics of the Foreign Film: 1960s to Present

Surveys the classics of international cinema from the 1960s to the present. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

[College of Arts & Sciences](#) [Film Studies](#) [History](#)

FILM-3051 (4) Film History 1

Intensive introduction to film history from 1895 to 1935. Topics covered include the beginnings of motion picture photography, the growth of narrative complexity from Lumiere to Griffith, American silent comedy, Soviet theories of montage, German expressionist films, and the transition to sound. Prereq., FILM 1502.

[College of Arts & Sciences](#) [Film Studies](#) [History](#)

FILM-3061 (4) Film History 2

Starts with the late 1930s and early 1940s films of Renoir and Welles and follows the historical growth and evolution of film aesthetics to the present. Studies Italian neorealist, French new wave, and recent experimental films, as well as the films of major auteur figures such as Bergman, Kurosawa, Fellini, Hitchcock, Bunuel, Antonioni, and Coppola. Prereqs., FILM 1502 and 3051, or instructor consent.

[College of Arts & Sciences](#) [Film Studies](#) [History](#)

FILM-3301 (3) Contemporary Issues in Russian Film

Examines the relationship between politics, economics, aesthetics, and the way moral and social issues are treated in noteworthy Russian films from the last 20 years. Same as RUSS 3301.

College of Arts & Sciences | Film Studies | History

FILM-3660 (3) The Postmodern

Analyzes the cultural and critical practices as well as the thought that defines the postmodern period at the end of twentieth century. Prereq., HUMN 2000 or junior/senior standing. HUMN 3660 and FILM 3660 are the same course. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Film Studies | History

FILM-3901 (1-3) Independent Study (Critical Study)

May be repeated up to 6 total credit hours. Limit of 3 credit hours per semester.

College of Arts & Sciences | Film Studies | History

FILM-4001 (3) Screening Race, Class & Gender in the U.S. and the Global Borderland

Engaging with the ways in which racial, class, gender and sexual oppression intersect, this class examines several filmic productions by and about diasporic and subaltern subjects (especially children and women) in the U.S./Mexico borderlands, and the urban ethnic metropolises of the global borderlands. Prereq., ETHN 2001 or equivalent ETHN course. Same as ETHN 4001.

College of Arts & Sciences | Film Studies | History

FILM-4021 (3) Directing/Acting for the Camera

Offers an intensive workshop that provides students with experience directing dramatic material, acting before a camera, and interpreting or adopting dramatic material for film. No experience in directing or acting required. Attendance, research, and papers required. Recommended prereq., FILM 1502. Same as ARTF 5021.

College of Arts & Sciences | Film Studies | History



FILM-2312 (3) Film Trilogies

Study of films designed as trilogies, drawing on a wide range of international cinema. Films include Satyajit Ray's Apu Trilogy (India), Krzysztof Kieslowski's Three Colors Trilogy (Poland), Francois Truffaut's Antoine Doinel cycle (France), and Abbas Kiarostami's Iran Trilogy (Iran). Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

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FILM-2500 (3) Introduction to Cinematography

Film production class focusing on developing a basic understanding of the aesthetics and principles of Cinematography. Through projects, screenings, and critiques, students learn creative camera lighting processes. Prereqs., FILM 1502 and 2000 or 2300 with an averaged combined grade in these two courses of 3.00, with a minimum overall GPA of 2.0. Restricted to FILM majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-2513 (3) Major Asian Filmmakers

Surveys the major Asian directors from China, India, Japan, Taiwan, and Vietnam. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

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FILM-2521 (3) Classics of the Foreign Film: 1960s to Present

Surveys the classics of international cinema from the 1960s to the present. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

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FILM-2610 (3) Animation Production

Includes analysis of independent and experimental animation and an introduction to various animation techniques (object, line, collage, sand or paint on glass, Xerox, cameraless, pixellation, etc.). Students produce exercise films and a final film exploring these techniques. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 2500.

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FILM-3004 (3) Films of Alfred Hitchcock

Intensive, critical investigation of the films of one of cinema's greatest directors, Alfred Hitchcock. Concepts to be examined include authorship, desire, gender, and film acting. Critical and theoretical writings about Hitchcock are explored. Paper and exams required. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

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FILM-3104 (3) Film Criticism and Theory

Surveys the range and function of film criticism, introduces major positions and concepts of film theory, and focuses on students' abilities to write about film. Prereq., FILM 1502. Restricted to FILM, FMST, and HUMN majors. Same as HUMN 3104.

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FILM-3504 (3) Topics in German Film

Analyzes key issues in German culture as they are represented in film and other media, e.g., technology, architecture, women, and the Holocaust. Taught in English. May be repeated up to 6 total credit hours provided the topics are different. Same as GRMN 3504.

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FILM-3514 (3) German Film & Society After 1989

Introduces post-1989 German culture through film. The course emphasizes films in their socio-historical contexts and explores developments in German culture during and after the unification. Taught in English. Same as GRMN 3514.

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FILM-4004 (3) Topics in Film Theory

Provides topic-centered analyses of controversial areas in film theory. Students read extensive materials in the topic area, analyze and summarize arguments as presented in the literature, write "position" papers, and make oral presentations in which they elaborate their own arguments about specific assigned topic, establishing critical dialogue with the primary materials. May be repeated up to 6 total credit hours. Prereq., FILM 3051 or instructor consent. Same as HUMN 4004 and ARTF 5004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) or Humanities (HUMN) majors only.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-4024 (3) Advanced Research Seminar

Focuses on a specific topic, director, or genre chosen by the professor. Research skills and critical thinking are emphasized. With faculty guidance, students determine individual projects and present them to the class. Class participation is mandatory. Each student submits a thorough and original research paper for a final grade. May be repeated up to 6 total credit hours. Prereq., FILM 1502. Recommended prereqs., FILM 3051, 3061. Same as ARTF 5024.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-4604 (3) Colloquium in Film Aesthetics

Seminar for the serious round table discussion and critique of film as an art form, emphasizing development of appropriate verbal and written language skills for description of film. May be repeated upto 6 total credit hours. Restricted to juniors/seniors. Same as ARTF 5604. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-4959 (3-6) Honors Senior Thesis

For exceptional Film Studies majors who wish to write an honors thesis based on independent research or creative work under the direction of a faculty member.

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FILM-2613 (3) Exploring Good and Evil Through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in film. Same as FARR 2510. Approved for arts and sciences core curriculum: ideals and values.

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FILM-2900 (3) Lighting

Covers the basics of "Why you need lighting", color temp, as well as camera techniques, lighting theory, and lighting set-ups for still and motion picture film video. Emphasizes hands on as well as theory. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 1502.

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FILM-3002 (3) Major Film Movements

Historical-aesthetic survey dealing with various national cinemas, taught in conjunction with the appropriate language department. Typical offerings are the French film, the German film, the Russian film, and so on. Also offers a more detailed approach to a more restricted subject, i.e., film comedy, women filmmakers, German expressionist cinema, Italian neorealism. May be repeated up to 12 total credit hours within the same term with departmental consent. Restricted to FILM/FMST majors. Non-majors will need instructor's consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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FILM-3003 (3) Major Film Directors

Focuses on the work of a single director or a group of related directors. Course content varies each semester. Consult the online Schedule Planner for specific topic. May be repeated up to 12 total credit hours with departmental consent. . Non-majors need instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) majors only.

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FILM-3004 (3) Films of Alfred Hitchcock

Intensive, critical investigation of the films of one of cinema's greatest directors, Alfred Hitchcock. Concepts to be examined include authorship, desire, gender, and film acting. Critical and theoretical writings about Hitchcock are explored. Paper and exams required. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

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FILM-3010 (1-3) Film Production Topics

Offers students both theoretical and practical experience in various specialized areas of cinematic production. Topics vary but include production in the documentary, fictional narrative, animation, computer animation, and experimental genres. May be repeated up to 9 total credit hours. Prereq., FILM 2000 or 2300. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-3012 (3) Documentary Film

Provides a historical and theoretical introduction to the documentary film. Examines the historical beginnings of documentary film as well as exploring contemporary documentary practice. Canonical moments of documentary history and lesser known examples of documentary film work will be explored. Prereq., FILM 1502. Recommended prereq., FILM 3051.

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FILM-3013 (3) Women and Film

Examines the representation of women both in mainstream movies and in women's counter-cinema that resists traditional form, content, and spectator-text relationships of Hollywood models. Emphasizes work by key women filmmakers such as Margarethe Von Trotta, Lizzy Borden, and Yvonne Rainer, as well as readings in feminist film theory. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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FILM-3022 (3) Jung, Film and Literature

The basic themes of C. G. Jung's archetypal psychology (shadow, anima/animus, character typology, and individuation) are studied and applied as tools of critical analysis to selected films and literary texts of the modern period. Instructor consent required. Same as HUMN 3015.

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FILM-3030 (3) Cinema Alternative Process

Explores alternative methods of film processing and filmic image manipulation. Through projects, film screenings, lectures and discussions students will learn fine arts approaches to creative control for the moving image. Prereq., FILM 1502, 2000, 2300 or 2500, or instructor consent. Restricted to BFA majors.

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FILM-3032 (3) Stage Tragedy and Film

Presents an aerial survey of the history of Western drama as represented in film: Greek drama, the Elizabethans, Ibsen/Strindberg to O'Neill/Williams, Beckett, etc. Prereq., FILM 1502. Recommended prereq., FILM 3051.

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FILM-3033 (3) Color and Cinema

Examines color and cinema from historical, technological, aesthetic and theoretical perspectives. Students will be required to complete both creative and scholarly assignments.

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FILM-3042 (3) Horror Film

Serious investigation of the horror film genre as well as its origins in, and relation to, works of romanticist literature (e.g., Poe, Shelley). Issues include: the relation of fantasy and reality; gender in horror film; psychological issues raised by the films; historical issues generated by the genre. Prereq., FILM 1502. Recommended prereq., FILM 3051.

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FILM-3043 (3) Topics in Critical Film Studies

Prepares students for advanced Film Critical Studies work. Subject matter varies from semester to semester. May be repeated up to 9 total credit hours, provided topics are different. Prereq., FILM 1502 or instructor consent. Restricted to FILM or FMST majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-3051 (4) Film History 1

Intensive introduction to film history from 1895 to 1935. Topics covered include the beginnings of motion picture photography, the growth of narrative complexity from Lumiere to Griffith, American silent comedy, Soviet theories of montage, German expressionist films, and the transition to sound. Prereq., FILM 1502.

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FILM-3061 (4) Film History 2

Starts with the late 1930s and early 1940s films of Renoir and Welles and follows the historical growth and evolution of film aesthetics to the present. Studies Italian neorealist, French new wave, and recent experimental films, as well as the films of major auteur figures such as Bergman, Kurosawa, Fellini, Hitchcock, Bunuel, Antonioni, and Coppola. Prereqs., FILM 1502 and 3051, or instructor consent.

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FILM-3081 (3) American Film in the 1980s and '90s

Examines the relationship between American films of the 1980s and '90s and their cultural and historical context. Includes films by Lynch, Stone, Solondz, Scott, Scorsese, Lee, Duyme, Lemmons, Tarantino, Altman. Controlled enrollment. Prereqs., FILM 1502, 3051, 3061, or instructor consent.

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FILM-3104 (3) Film Criticism and Theory

Surveys the range and function of film criticism, introduces major positions and concepts of film theory, and focuses on students' abilities to write about film. Prereq., FILM 1502. Restricted to FILM, FMST, and HUMN majors. Same as HUMN 3104.

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FILM-3211 (3) History of Russian Cinema

Surveys Russian cinema in historical and cultural context from early 20th century to the present. Prereq., FILM 1502 or RUSS 2221. Same as RUSS 3211. Approved for arts and sciences core curriculum: literature and the arts.

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FILM-3301 (3) Contemporary Issues in Russian Film

Examines the relationship between politics, economics, aesthetics, and the way moral and social issues are treated in noteworthy Russian films from the last 20 years. Same as RUSS 3301.

College of Arts & Sciences | Film Studies | History

FILM-3400 (3) Cinema Production I

Exploration of creative cinema production through short production and post-production projects. A short final project will be required. Focuses on the tactics and strategies of independent cinema production, examining a variety of approaches to genre. Explores a range of film and digital technologies. Restricted to Film (FILM or FMST) majors only. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreqs., FILM 3515 and 3525. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3402 (3) European Film and Culture

Studies the relationships between European film, art, and culture. Offered each summer in a different European city (viz, Rome, Paris, London, Athens, Barcelona). There will be regular in-class lectures, film screenings, field trips, and on-site teaching. May be repeated up to 12 total credit hours. Recommended prereq., introductory film and art history courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3422 (3) Genre: The Hollywood Musical

Second only to jazz, some critics regard the Hollywood musical as the greatest American popular art form of the 20th century. This course proposes a historical, formal, and theoretical approach to the musical through its several iterations, from the classical, to the revisionist, to the unusual, placing the changes in the genre's form, structure, and ideology in the context of America's changing social, political, and religious values. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3503 (3) German Film Through World War II

History and theory of Weimar and Nazi film with sociocultural emphasis. Taught in English. Same as GRMN 3503.

College of Arts & Sciences | Film Studies | Topics

FILM-3504 (3) Topics in German Film

Analyzes key issues in German culture as they are represented in film and other media, e.g., technology, architecture, women, and the Holocaust. Taught in English. May be repeated up to 6 total credit hours provided the topics are different. Same as GRMN 3504.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-3513 (3) German Film and Society 1945-1989

Introduces issues in German society through film during the Cold War. Focus on East and West Germany, though some other German language films may be included. Emphasis is on reading films in their social, historical, and political contexts. Taught in English. Same as GRMN 3513.

College of Arts & Sciences | Film Studies | Topics

FILM-3514 (3) German Film & Society After 1989

Introduces post-1989 German culture through film. The course emphasizes films in their socio-historical contexts and explores developments in German culture during and after the unification. Taught in English. Same as GRMN 3514.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-3515 (2) Camera Workshop

Focuses on the development of independent cinema production and post-production skills. The instructor must certify students in order to continue with their BFA studies. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreq., FILM 3400. Restricted to BFA film studies majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Workshops

FILM-3525 (2) Cinema Editing Workshop

Focuses on the development of independent cinema post-production skills. The instructor must certify students in order to continue with their BFA studies. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreq., FILM 3400. Restricted to BFA film studies majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Workshops

FILM-3563 (3) Producing the Film

Focuses on the production process of movie making from idea through distribution, analyzing each of the five phases involved, including the major players, function and problems inherent in each. Emphasizes the critical role the script plays in this process. Designed to give students a "map of the minefield" before venturing out on their own. Offered through Continuing Education.

College of Arts & Sciences | Film Studies | Topics

FILM-3600 (3) Digital Post-Production Process

Through projects, discussions, and screenings, this class explores the practices and aesthetics of computer-based moving-image art editing. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3603 (3) Sound and Vision

Historical and aesthetic overview of sound in relation to film, ranging from Hitchcock's *Blackmail* to Mallick's *The Thin Red Line*. Pursues issues in sound design, mixing film scores, voiceovers, and film/sound theory in narrative, experimental, and documentary films. Among the filmmakers to be studied are Vertov, Welles, Altman, Brakhage, Lipsett, Eisenstein, Coppola, Scorcese, Stone, Leone, Godard, Nelson. Also explores a limited practicum using Pro Tools for sound design. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Topics

FILM-3620 (3) Experimental Digital Animation

Instructs students in the making of digital animation. Covers the use of the exposure sheet, frame series manipulation, digital motion techniques, and an analysis of pertinent films. Emphasis is on digital tools to create individual, personal, or experimental animated works. Includes experimental techniques of transfer between digital media and film. Prereq., FILM 2610. Recommended prereqs., FILM 3030 and FILM 3400 or 3600.

College of Arts & Sciences | Film Studies | Production

FILM-3660 (3) The Postmodern

Analyzes the cultural and critical practices as well as the thought that defines the postmodern period at the end of twentieth century. Prereq., HUMN 2000 or junior/senior standing. HUMN 3660 and FILM 3660 are the same course. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Film Studies | History

FILM-3700 (3) Digital Audio Design

Studies and applies Pro Tools as a post-production audio toolbox. Applied techniques include sound recording, sound editing, field recording, foley, vocal recording and editing, plug-in generated sound creation, MIDI, basic scoring principles, audio sweetening, and audio mixing. Students will be required to complete regular editing assignments in addition to a final soundscape project. Prereq., FILM 2000 or 2300, 2500, and 3400 or 3600. Restricted to BFA majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3900 (1-3) Independent Study (Production)

May be repeated up to 6 total credit hours. Limit of 3 credit hours per semester.

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FILM-3901 (1-3) Independent Study (Critical Study)

May be repeated up to 6 total credit hours. Limit of 3 credit hours per semester.

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FILM-3920 (3) Professional Seminar

Learning aspects of professional development in the field of cinema. Through workshops and assignments students will learn of the many opportunities found within all areas of production. Guests will help inform the students of professional options and expectations. Topics will include: crew work, fund raising, marketing festivals, low budget filmmaking, and alternative venues. Students may have an internship concurrently with this course. May be repeated up to 6 total credit hours. Recommended restriction to Film (FILM or FMST) majors only. Prereq., FILM 2500.

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FILM-3940 (1-6) Film Studies Internship

Provides students with professional internship experiences with film, video, new media production companies, governmental agencies, production units, audio recording studios, and new media industries. Students will be responsible for securing their own internship position. May be repeated up to 9 credit hours. Prereqs., must be a BA or BFA film studies major with a CU GPA of at least 2.00, upper-division standing, and a 3.00 GPA as a BA or BFA film studies major. Offered pass/fail only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-4000 (3) Advanced Digital Postproduction

Through projects, discussions, and screenings, this class explores the advanced practices and aesthetics of computer-based moving-image art editing. Topics include how to edit and manage a postproduction cycle, how to use digital editing systems and capabilities such as compositing, digital audio, and optical effects treatments. Prereqs., FILM 1502, 2000 or 2300, 2500, and 3400 or 3600, or instructor consent. Restricted to BFA FMST majors. Cannot be taken simultaneously with FILM 3400 or 3600. Same as ARTF 5000.

College of Arts & Sciences | Film Studies | Production

FILM-4001 (3) Screening Race, Class & Gender in the U.S. and the Global Borderland

Engaging with the ways in which racial, class, gender and sexual oppression intersect, this class examines several filmic productions by and about diasporic and subaltern subjects (especially children and women) in the U.S./Mexico borderlands, and the urban ethnic metropolises of the global borderlands. Prereq., ETHN 2001 or equivalent ETHN course. Same as ETHN 4001.

College of Arts & Sciences | Film Studies | History

FILM-4003 (3) Film and Fiction

Explores similarities and differences between literature and film as narrative arts. Studies several novels, short stories, and plays and films made from them. Examines problems in point of view, manipulation of time, tone, structure, and setting. Same as ARTF/COML 5003.

College of Arts & Sciences | Film Studies | Topics

FILM-4004 (3) Topics in Film Theory

Provides topic-centered analyses of controversial areas in film theory. Students read extensive materials in the topic area, analyze and summarize arguments as presented in the literature, write "position" papers, and make oral presentations in which they elaborate their own arguments about specific assigned topic, establishing critical dialogue with the primary materials. May be repeated up to 6 total credit hours. Prereq., FILM 3051 or instructor consent. Same as HUMN 4004 and ARTF 5004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) or Humanities (HUMN) majors only.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-4005 (3) Screenwriting Workshop: Short Form

A writing intensive course that focuses on the art of the short form screenplay. Students will complete regular writing exercises, presentations, and several short scripts. May be repeated up to 6 total credit hours. Prereq., FILM 3400 or 3600. BFAs only. Prerequisites: Restricted to sophomore, junior or senior FMST majors only.

College of Arts & Sciences | Film Studies | Workshops

FILM-4010 (1-3) Topics in Film Studies-Production

Prepares students for advanced Film Studies production courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as ARTF 5010.

College of Arts & Sciences | Film Studies | Production

FILM-4013 (3) Film, Photography and Modernism

Provides interdisciplinary study of film, photography, and modernism, focusing on issues such as dystopia, alienation, sexuality, subjectivity, and self-referentiality. Photographs by Stieglitz, Strand, Weston, Evans, Cartier-Bresson, Kertesz, and Moholy-Nagy. Films by Dziga-Vertov, Eisenstein, Resnais, Antonioni, Bergman, Bunuel, and Bertolucci. Prereq., FILM 1502. Recommended prereq., FILM 3051. Same as ARTF 5013.

College of Arts & Sciences | Film Studies | Topics

FILM-4021 (3) Directing/Acting for the Camera

Offers an intensive workshop that provides students with experience directing dramatic material, acting before a camera, and interpreting or adopting dramatic material for film. No experience in directing or acting required. Attendance, research, and papers required. Recommended prereq., FILM 1502. Same as ARTF 5021.

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FILM-4023 (3) Topics in International Cinema

Focuses on major international filmmakers who have had a decisive impact on world cinema. Students will learn how directors create their own innovative body of work with specific formal and thematic patterns, and will also learn to place such work within multiple frameworks that will cover film history, theory, aesthetics, philosophy, and social and cultural analysis. May be repeated up to 6 total credit hours provided topics are different. Prereq., FILM 1502. Recommended prereqs., FILM 3051 and 3061. Restricted to FILM, FMST, ARTC majors. Same as ARTF 5023. Prerequisites: Restricted to Film (FILM or FMST) or Fine Arts - Creative Arts (ARTC) majors only.

College of Arts & Sciences | Film Studies | Topics

FILM-4024 (3) Advanced Research Seminar

Focuses on a specific topic, director, or genre chosen by the professor. Research skills and critical thinking are emphasized. With faculty guidance, students determine individual projects and present them to the class. Class participation is mandatory. Each student submits a thorough and original research paper for a final grade. May be repeated up to 6 total credit hours. Prereq., FILM 1502. Recommended prereqs., FILM 3051, 3061. Same as ARTF 5024.

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FILM-4030 (3) Visiting Filmmakers Seminar

Examines creative issues in contemporary cinema art. Graduate and advanced undergraduate students explore filmmaking ideas with guest artists within a seminar setting. Filmmakers, videographers and programmers of national and international reputation, with an emphasis on "experimental" practice, interact with graduate and advanced undergraduate students, and discuss their work at seminar meetings, public lectures or events. May be repeated up to 6 total credit hours. Restricted to Film (FILM or FMST), Fine Art -Studio Arts (BASA), or Fine Arts-Creative Arts (ARTC) majors only. Recommended prereqs., FILM 1502 and 4453. Same as ARTF 5030. Prerequisites: Restricted to Film (FILM or FMST), Fine Art -Studio Arts (BASA), or Fine Arts-

Creative Arts (ARTC) majors only.

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FILM-4043 (1-3) Topics in Film Studies-Critical Studies

Prepares students for advanced Film Studies critical studies courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as ARTF 5043.

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FILM-4105 (3) Advanced Screenwriting

Introduces professional screenwriting, in the form of a creative writing workshop. Admission by portfolio (see film department). Students write scenes and scripts for short films, feature treatments, etc., and are graded on a final portfolio. Prereq., approved writing sample. Recommended prereqs., FILM 3051 and 3061. Same as ARTF 5105.

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FILM-4135 (3) Art and Psychoanalysis

Explores psychoanalytic theory as it relates to our understanding of literature, film, and other arts. After becoming familiar with some essential Freudian notions (repression, narcissism, ego/libido, dreamwork, etc.), students apply these ideas to works by several artists (e.g., Flaubert, James, Kafka, Hoffmann, and Hitchcock). Prereq., HUMN 2000 or junior/senior standing. Approved for arts and sciences core curriculum: literature and the arts.

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FILM-4200 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

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FILM-4240 (3) Beginning Video Production

Presents a studio course on basic single camera video production strategies and concepts. Through class screenings, projects, demonstrations, discussions, and readings, students gain an introductory familiarity with camera, lighting, sound, editing and the organization and planning involved in a video project. Explores a basic theoretical understanding of video as an art form and its relationship to television, film, art, history, culture. Prereqs., FILM 2000 and 2500 or instructor consent. Same as ARTS 4246.

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FILM-4340 (3) Intermediate Video Production

Continuation of beginning video production. Extends the knowledge of single camera video production strategies and concepts. Expands the concept of montage (editing) and strategies to develop a video project through class screenings, projects, discussions, and readings. Furthers theoretical understanding of video as an art form. Prereq., FILM 4240 or instructor consent. Same as ARTS 4346.

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FILM-4440 (3) Advanced Video Production

Continuation of intermediate video production. Explores advanced technical skills to control the quality of the video image in production, postproduction, and distribution. Emphasizes self-motivated independent projects, conceptual realization of advanced student work and basic working knowledge of distribution and life as a media artist. Promotes further theoretical understanding of video as an art form. May be repeated up to 9 total credit hours. Prereq., FILM 4340 or instructor consent. Same as ARTS 4446.

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FILM-4453 (3) Elective Affinities: Avant-Garde Film and the Arts

Traces the history and aesthetics of avant-garde/ experimental films in light of similar ideas found in the other arts, particularly painting, poetry, photography and music. Topics covered include Dada and the early avant-garde; surrealism and psychodramas; Brakhage and abstract expressionism; feminist arts and film since the 1980s; the idea of the sublime in painting, music, and film; landscape in painting, photography, and film; post-modernism and the cinema; queer theory, gender/identity politics, and aesthetics of recent films; and specific multiple disciplinary artists such as Andy Warhol, Michael Snow, Helen Levitt, and Gunvor Nelson. Prereq., FILM 1502. Same as ARTF 5453.

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FILM-4500 (3) Cinema Production 2

Advanced exploration of creative cinema production through short production and post-production projects. Course focuses on the tactics and strategies of independent cinema production leading to the completion of a BFA thesis project exploring either documentary, experimental, or narrative genres. May be repeated up to 6 total credit hours. Prereq., FILM 3400, 3515 and 3525. Same as ARTF 5500. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-4505 (3) Screenwriting Workshop: Long Form

Creative writing workshop in which students plan and write a feature-length screenplay with emphasis on format, dialogue, characterization, and story. Prereqs., FILM 1502 and 2000.

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FILM-4600 (3) Creative Digital Cinematography

Explores creative approaches to single camera digital cinematography through short projects, discussions, and screenings. Relates creative photography and poetic approaches to the digital camera cinema. May be repeated up to 6 total credit hours. Restricted to Film (FILM or FMST) majors only. Prereqs., FILM 2000 or 2300, 2500, and 3400 or 3600, or ARTS 4246 or 5346. Same as ARTF 5600. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM-4604 (3) Colloquium in Film Aesthetics

Seminar for the serious round table discussion and critique of film as an art form, emphasizing development of appropriate verbal and written language skills for description of film. May be repeated upto 6 total credit hours. Restricted to juniors/seniors. Same as ARTF 5604. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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FILM-4959 (3-6) Honors Senior Thesis

For exceptional Film Studies majors who wish to write an honors thesis based on independent research or creative work under the direction of a faculty member.

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FILM-3042 (3) Horror Film

Serious investigation of the horror film genre as well as its origins in, and relation to, works of romanticist literature (e.g., Poe, Shelley). Issues include: the relation of fantasy and reality; gender in horror film; psychological issues raised by the films; historical issues generated by the genre. Prereq., FILM 1502. Recommended prereq., FILM 3051.

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FILM-3402 (3) European Film and Culture

Studies the relationships between European film, art, and culture. Offered each summer in a different European city (viz, Rome, Paris, London, Athens, Barcelona). There will be regular in-class lectures, film screenings, field trips, and on-site teaching. May be repeated up to 12 total credit hours. Recommended prereq., introductory film and art history courses. Approved for arts and sciences core curriculum: literature and the arts.

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FILM-3422 (3) Genre: The Hollywood Musical

Second only to jazz, some critics regard the Hollywood musical as the greatest American popular art form of the 20th century. This course proposes a historical, formal, and theoretical approach to the musical through its several iterations, from the classical, to the revisionist, to the unusual, placing the changes in the genre's form, structure, and ideology in the context of America's changing social, political, and religious values. Prereq., FILM 1502. Recommended prereq., FILM 3051.

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ARTS-3403 (3) Intaglio and Relief 1

Introduces the study and experimentation of intaglio and relief processes in black and white, color, and possible photo imagery. May be repeated up to 6 total credit hours. Taught with ARTS 4403/5403. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3413 (3) Lithography 1

Introduces the study of stone and metal plate lithography, emphasizing individual creative development in black and white and further development in color printing processes. May be repeated up to 6 total credit hours. Not available to freshmen. Taught with ARTS 4413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-3423 (3) Screen Printing 1

Introduces the study of silkscreen techniques, emphasizing creativity, individual development, and experimentation in contemporary silkscreen processes. May be repeated up to 6 total credit hours. Not available to freshmen.

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ARTS-4403 (3) Intaglio and Relief 2

Continues the study and experimentation of intaglio and relief processes in black and white, color, digital imagery, and nontoxic processes as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3403. Taught with ARTS 3403/5403. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-4413 (3) Lithography 2

Continues the study of stone and metal plate lithography, emphasizing individual creative development in black and white, and further development in color printing processes. In addition, digital imaging and nontoxic processes are emphasized as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3413. Taught with ARTS 3413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-4423 (3) Screen Printing 2

Introduces advanced screen printing technology, emphasizing individual creativity and the ability to resolve problems of two-dimensional form. May be repeated up to 12 total credit hours. Prereq., ARTS 3423.

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ARTS-4433 (3) Alternative Printmaking (Non-Toxic)

Introduces computer-generated imaging and developing ideas as related to traditional forms of printmaking. Emphasizes original development of ideas and skills involved in learning advanced printing processes in lithography and intaglio media. May be repeated up to 12 total credit hours. Same as ARTS 5433. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS-4453 (3) Monotype Printing

Introduces monotype printing, with the uniqueness and diversity of its methods of producing art. The process uses some of the best qualities of painting, print making, and drawing. Emphasizes creative individual development, along with processes inherent to this media. May be repeated up to 6 credit hours. Same as ARTS 5453.

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ARTS-5403 (3) Graduate Intaglio and Relief

May be repeated up to 18 total credit hours. Taught with ARTS 3403/4403. Prerequisites: Restricted to Graduate Students only.

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ARTS-5413 (3) Graduate Lithography

May be repeated up to 18 total credit hours. Taught with ARTS 3413/4413. Prerequisites: Restricted to Graduate Students only.

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ARTS-5423 (3) Graduate Screen Printing

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

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ARTS-5433 (3) Graduate Alternative Printmaking (Non-Toxic)

May be repeated up to 12 total credit hours. Same as ARTS 4433. Prerequisites: Restricted to Graduate Students only.

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ARTS-5453 (3) Graduate Monotype Printing

Same as ARTS 4453. Prerequisites: Restricted to Graduate Students only.

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THTR-2043 (3) Voice and Movement for the Stage

Natural resources of the human voice and body are studied as artistic resources for the performing artist. Designed to examine both the process and products of vocal and physical craft work.

Prerequisites: Restricted to Theatre (THTR, TBFA) or Dance (DNCE or DBFA) majors only.

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THTR-3013 (3) Studio 1: Building a Character

Students learn to deepen and develop their proficiency with specific acting techniques. Explores the craft elements of acting, as well as text analysis. Prereq., THTR 2003. Restricted to BFA program in acting or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Theatre (TBFA) majors only.

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THTR-3023 (3) Studio 2: Creating a Role

Continued development of acting technique and tools for play analysis, with particular emphasis on scene study. Special attention will be given to the Master Teachers of Acting and their pedagogies. Prereq., THTR 3013 or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

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THTR-3033 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, either within the major season or approved departmental production. Requires detailed preparational research, rehearsal commitments, and public presentation of theories and concepts in practice. Following the performance, students present written reports and evaluations. May be repeated up to 3 total credit hours. Prereq., THTR 2003 or 2043.

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THTR-3043 (3) Advanced Voice for the Stage

Continues the work begun in THTR 2043. Studies advanced vocal techniques with the goal of integrating these skills into the working process of the performing artist. Prereqs., THTR 2043 or instructor consent. Prerequisites: Restricted to Theatre (THTR or TBFA) majors only.

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THTR-3053 (3) Acting 2

Continuation of the techniques introduced in the beginning acting courses (THTR 1003 and 2003). Emphasis is placed on monologues and scene study of contemporary plays. Basic techniques in developing a character are explored. Prereq., THTR 1003 or 2003. Prerequisites: Restricted to Theatre, Music, Music Arts or Film Majors only.

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THTR-4013 (3) Studio 3: Acting Shakespeare

In-depth study of Shakespearean texts from the perspective of their demands on the actor, including the conventions and performance styles of Elizabethan theatre. Prereqs., THTR 3013 and 3023, or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

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THTR-4023 (3) Studio 4: Playing with Styles

Studies selected styles of theatre performance such as Greek Drama, Comedy of Manners, Commedia Dell'art, Modern Realism, Theatre of Absurd, and Non-Western Theatre, including vocal and physical style elements. Prereq., THTR 3013, 3023, and 4013, or instructor consent.

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THTR-4033 (3) Advanced Movement for the Stage

Continues the work begun in THTR 2043. Studies the advanced physical techniques with the goal of integrating these skills into the working processes of the performing artist. Prereqs., THTR 2043 or instructor consent.

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THTR-4063 (3) Audition Techniques

Prepares students for the demands of the acting profession. Trains students in various audition techniques including general auditions, prepared auditions, cold readings, on-camera auditions, and commercial auditions. Shows how to prepare and perfect audition material in a professional and exemplary way. Discusses agents, casting directors, and the process of becoming a professional actor.

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THTR-4073 (3) Performing Voices of Women

Explores theories underlying the "Feminine voice," varied perspectives in prose and poetry, ways of embodying these voices and perspectives in performance forms, and ultimately the students' own voices through creation of autobiographical performance pieces (some to be presented for student audiences). Open to both men and women. Prereq., instructor consent. Same as WMST 4073.

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THTR-4103 (3) Acting for the Camera

Introduces fundamental tools of acting for the camera. Students learn basic film terminology, specific camera acting techniques, and the demands placed on an actor when shooting a film. Uses exercises, scenes, monologues, and readings to provide a solid understanding of how to create a character, analyze a text, utilize important vocabulary, and perform effectively on camera. Prereq., THTR 1003 or 2003 or instructor consent.

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THTR-4193 (3) Studio 5: Creating an Ensemble

Students create an ensemble piece utilizing collaborative approaches. Emphasizes training actors in weaving personal, social, political, and cultural threads into an enactment. Prereqs., THTR 3013, 3023, 4013, 4023, or instructor consent.

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THTR-6003 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under faculty supervision and prepare a written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced studies in acting and advisor approval. Prerequisites: Restricted to Graduate Students only.

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MATH-1005 (3) Introduction to College Mathematics

Introductory level mathematics course which presents a college level introduction to algebraic functions and their applications. Credit not granted for this course and MATH 1011. Course is only offered through the Student Academic Service Center. Meets MAPS requirement for mathematics.

[College of Arts & Sciences](#) | [Mathematics](#)

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MATH-1005 (3) Introduction to College Mathematics

Introductory level mathematics course which presents a college level introduction to algebraic functions and their applications. Credit not granted for this course and MATH 1011. Course is only offered through the Student Academic Service Center. Meets MAPS requirement for mathematics.

[College of Arts & Sciences](#) | [Mathematics](#)

MATH-1011 (3) Fundamentals and Techniques of College Algebra

Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions, and graphs, and systems of equations. Credit not granted for this course and MATH 1005 or 1150. Prereq., one year high school algebra. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

MATH-1012 (3) Quantitative Reasoning and Mathematical Skills

Promotes mathematical literacy among liberal arts students. Teaches basic mathematics, logic, and problem-solving skills in the context of higher level mathematics, science, technology, and/or society. This is not a traditional math class, but is designed to stimulate interest in and appreciation of mathematics and quantitative reasoning as valuable tools for comprehending the world in which we live. Credit not granted for this course and QRMS 1010. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

MATH-1021 (2) Numerical and Analytical College Trigonometry

Covers trigonometric functions, identities, solutions of triangles, addition and multiple angle formulas, inverse and trigonometric functions, and laws of sines and cosines. Credit not granted for this course and MATH 1150, 1030 or 1040. Prereqs., MATH 1011 or 1020 or 1 1/2 years of high school algebra and 1 year of high school geometry.

College of Arts & Sciences Mathematics

MATH-1071 (3) Finite Mathematics for Social Science and Business

Discusses systems of linear equations and introduces matrices, linear programming, and probability. Prereq., MATH 1011 or 1 1/2 years of high school algebra. Credit not granted for this course and MATH 1050, 1060 and 1070. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1081 (3) Calculus for Social Science and Business

Covers differential and integral calculus of algebraic, logarithmic, and exponential functions. Prereq., MATH 1011, 1071, 1010, or 1070 or placement exam score for MATH 1020 or two years high school algebra. Credit not granted for this course and MATH 1080, 1090, 1100, 1300, 1310, APPM 1350, and ECON 1088. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1110 (3) The Spirit and Uses of Mathematics 1

For prospective elementary teachers. Includes a study of problem-solving techniques in mathematics, the uses and role of mathematics in our society, and the structure of our familiar number systems. Additional topics are chosen from number theory, ancient numeration systems, computer sciences, modern geometry and algebra and elementary logic. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1120 (3) The Spirit and Uses of Mathematics 2

Continuation of MATH 1110. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1130 (3) Mathematics from the Visual Arts

Introduces mathematical concepts through the study of visual arts. Credit not granted for this course and QRMS 1130. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1150 (4) Precalculus Mathematics

Develops techniques and concepts prerequisite to calculus through the study of trigonometric, exponential, logarithmic, polynomial, and other functions. Prereq., one and a half years of high school algebra. Students having credit for college algebra and trigonometry may not receive additional credit for MATH 1150. Students with credit for college algebra receive only 2 additional hours of credit for MATH 1150. Similar to MATH 1000, 1010, 1020, 1011, 1021, 1030, and 1040. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1300 (5) Calculus 1

Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration and application of the definite integral. Prereqs., two years high school algebra, one year geometry, and 1/2 year trigonometry or MATH 1150. Credit not granted for this course and MATH 1081, 1310, APPM 1345, 1350, and ECON 1088. Similar to MATH 1080, 1090, and 1100. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1310 (5) Calculus, Stochastics, and Modeling

Calculus, probability, statistics, and discrete and continuous modeling are central to understanding the behavior of complex systems, ranging from gene networks and cells to brains and ecosystems. This course is similar to MATH 1300, but a greater emphasis is placed on relevance and applications to complex systems. Especially recommended for biology majors. Prereq., 2 years high school algebra, 1 year geometry, and 1/2 year trigonometry, or MATH 1150. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, APPM 1350, or ECON 1088. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1410 (3) Mathematics for Secondary Educators

Assists students in meeting state mathematics certification requirements. Topics include problem solving, number systems, geometry and measurement, probability and statistics. Enrollment is restricted to students already admitted to or intending to apply for admission to the secondary teacher education program. Prereqs., one year high school algebra, one year geometry. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills. Prerequisites: Restricted to PRED, EDEL, EDEN, EDSS, EDSC, EDMU, EDSP, EDFR, EDGR, EDIT, EDJP or EDLT Students only.

College of Arts & Sciences Mathematics

MATH-2001 (3) Introduction to Discrete Mathematics

Introduces the ideas of rigor and proof through an examination of basic set theory, quantification theory, elementary counting, discrete probability, and additional topics. Prereq., MATH 1300 or APPM 1350.

College of Arts & Sciences Mathematics

MATH-2300 (5) Calculus 2

Continuation of MATH 1300. Topics include transcendental functions, methods of integration, polar coordinates, differential equations, improper integrals, infinite sequences and series, Taylor polynomials and Taylor series. Prereq., MATH 1300. Credit not granted for this course and MATH 1320 or APPM 1360.

College of Arts & Sciences Mathematics

MATH-2380 (3) Mathematics for the Environment

An interdisciplinary course where analysis of real phenomena such as acid rain, population growth, and road-killed rabbits in Nevada leads to consideration of various fundamental concepts in mathematics. One-third of the course consists of individual projects chosen by students. Prereq., proficiency in high school mathematics. Credit not granted for this course and QRMS 2380. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-2400 (4) Calculus 3

Continuation of MATH 2300. Topics include vectors, three-dimensional analytic geometry, partial differentiation and multiple integrals, and vector analysis. Prereq., MATH 2300. Credit not granted for this course and APPM 2350.

College of Arts & Sciences Mathematics

MATH-2510 (3) Introduction to Statistics

Elementary statistical measures. Introduces statistical distributions, statistical inference, and hypothesis testing. Prereq., two years of high school algebra. Credit not granted for this course and MATH 4520/5520 or MATH 3510.

College of Arts & Sciences Mathematics

MATH-3001 (3) Analysis 1

Provides a rigorous treatment of the basic results from elementary Calculus. Topics include the topology of the real line, sequences of numbers, continuous functions, differentiable functions, and the Riemann integral. Prereq., MATH 2001.

College of Arts & Sciences Mathematics

MATH-3110 (3) Introduction to Theory of Numbers

Studies the set of integers, focusing on divisibility, congruences, arithmetic functions, sums of squares, quadratic residues and reciprocity, and elementary results on distributions of primes. Prereq., MATH 2001. Offered each spring.

College of Arts & Sciences Mathematics

MATH-3120 (3) Functions and Modeling

Engages the students in lab-based activities designed to strengthen and expand knowledge of the topics in secondary mathematics, focusing especially on topics from Precalculus and Calculus. The labs will involve the use of multiple representations, transformations, data analysis techniques, and interconnections among geometry, probability and algebra. a recurrent theme will be building relationships between discrete and continuous reasoning. Prereqs., Calculus I, MATH 2001, or instructor consent.

College of Arts & Sciences Mathematics

MATH-3130 (3) Introduction to Linear Algebra

Examines basic properties of systems of linear equations, vector spaces, linear independence, dimension, linear transformations, matrices, determinants, eigenvalues, and eigenvectors. Prereq., MATH 2300 or APPM 1360. Credit not granted for this course and APPM 3310.

College of Arts & Sciences Mathematics

MATH-3140 (3) Abstract Algebra 1

Studies the elementary theory of groups, rings, fields, polynomials, group and ring homomorphisms, and isomorphisms. Prereq., MATH 2001 and 3130.

College of Arts & Sciences Mathematics

MATH-3170 (3) Combinatorics 1

Covers basic methods and results in combinatorial theory. Includes numeration methods, elementary properties of functions and relations, and graph theory. Emphasizes applications. Prereq., MATH 2001.

College of Arts & Sciences Mathematics

MATH-3210 (3) Euclidean and Non-Euclidean Geometry

Axiomatic systems. Foundations of Euclidean and Lobachevskian geometries. Prereq., MATH 2001 and 3130.

College of Arts & Sciences | Mathematics

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WMST-1006 (3) The Social Construction of Sexuality

Same as SOCY 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Womens Studies](#)
[Sociology](#)

WMST-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as SOCY 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

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WMST-1260 (3) Introduction to Women's Literature

Same as ENGL 1260. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Womens Studies](#)
[English](#)

WMST-2000 (3) Introduction to Feminist Studies

Introduces students to the field of Women & Gender Studies. Examines gender issues in the United States from interdisciplinary, multicultural, and feminist perspectives. Covers such topics as sexuality, beauty ideals, women's health, violence against women, work, the economy, peace and war, and the environment. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies

WMST-2020 (3) Femininities, Masculinities, Alternatives

Examines contemporary experiences of people around the world as they negotiate dominant and subversive understandings of gendered identities. Focuses on the ways in which the material and discursive circumstances of people's lives shape their opportunities for resistance and creative construction. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies

WMST-2030 (3) Introduction to Lesbian, Gay, Bisexual, and Transgender Studies

Same as LGBT 2000. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | LGBT Studies

WMST-2050 (3) Gender, Sexuality, and Popular Culture

Explores diverse cultural forms such as film, popular fiction and non-fiction, music videos, public art, websites, blogs and zines which are shaped by, and in turn shape popular understandings of gender at the intersections of race, class, ability, religion, nation, and imperialism. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies

WMST-2100 (3) Women in Ancient Greece

Approved for arts and sciences core curriculum: human diversity. Same as CLAS 2100.

College of Arts & Sciences | Womens Studies | Classics

WMST-2110 (3) Women in Ancient Rome

Same as CLAS 2110. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Classics

WMST-2200 (3) Women, Literature, and the Arts

Introduces the contributions of women to literature and the performing arts from a historical and cross-cultural perspective. Emphasizes the cultural contexts in which artworks are created, as well as representations of gender and sexuality. Stresses issues of structure, content, and style, along with the acquisition of basic techniques of literary and arts criticism. Prereq., WMST 2000. Approved for arts and sciences core curriculum: human diversity or literature and the arts.

College of Arts & Sciences | Womens Studies

WMST-2290 (3) Philosophy and Women

Same as PHIL 2290. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Philosophy

WMST-2400 (3) Women of Color and Activism

Studies the history of social activism in the United States by women of color, with an emphasis on modes of social activism, issues that have organized specific communities of color, issues that have crossed ethnic/racial boundaries, and the interaction of women from different ethnic/racial groups, including women of color and white women. Recommended prereq., WMST 2000 or 2600. Same as HIST 2636. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Womens Studies

WMST-2600 (3) Gender, Race, and Class in a Global Context

Examines the positionality of women in terms of gender, race, ethnicity, class, and power relations in a global context. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Womens Studies

WMST-2700 (3) Psychology of Contemporary American Women

Surveys psychological theory and research concerning contemporary American women. Deals with such issues as masculine bias in American culture, sex difference in cognitive functioning and personality, psychological conflict for women between career and home, and, finally, specific areas pertaining to women's mental health. Prereq., WMST 2000 or PSYC 1001. Same as PSYC 2700. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies

WMST-2800 (3) Women and Religion

Same as RLST 2800. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Religious Studies

WMST-3004 (3) Women in Education

Same as HONR 3004. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Honors

WMST-3012 (3) Women and Development

Restricted to students with 57-180 credits (Junior or Senior) Womens Studies (WMST) majors only. Same as SOCY 3012. Approved for arts and sciences core curriculum: human diversity.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Womens Studies (WMST) majors only.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3016 (3) Marriage and the Family in the United States

Restricted to junior/senior WMST majors. Approved for arts and sciences core curriculum: United States context. Same as SOCY 3016.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3020 (3) Methods of Inquiry in Gender, Race, Class, and Sexuality

Examines various research methods and approaches in women's and gender studies. Students will gain practical experience to be able to write a proposal for a significant research project, informed by course readings and discussions. Prereqs., WMST 2000, 2600. Recommended prereqs., WMST 2200 or 2400.

College of Arts & Sciences | Womens Studies

WMST-3044 (3) Race, Class, Gender, and Crime

Same as SOCY 3044.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3046 (3) Topics in Sex and Gender

Same as SOCY 3046.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3090 (3) Critical Thinking in Feminist Studies

Analyzes the concepts, ideas, arguments, and assumptions that inform major texts in feminist theory through close reading, class discussion, and writing papers. Emphasizes developing reading and writing skills to interpret theoretical arguments. Prereq., WMST 2000 and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Womens Studies

WMST-3100 (3) Feminist Theories

Explores a variety of alternative systematic accounts of, and explanations for, gender inequities. Social norms of both masculinity and femininity are analyzed in relation to other axes of inequality such as class, sexuality, race/ethnicity, neocolonialism, and the domination of nonhuman nature. Prereq., WMST 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Womens Studies

WMST-3110 (3) Feminist Practical Ethics

Explores a variety of personal and public policy issues in light of basic feminist commitment to opposing women's subordination. Provides students not only with a deeper understanding of the specific issues discussed but also with a sense of the ways in which a principled commitment to feminism may influence and be influenced by prevailing interpretations of contemporary ideals and values (such as freedom, equality, and community). Provides an opportunity to develop skills of critical analysis useful in a wide range of contexts. Prereq., WMST 2000 or 2290, and junior or senior standing. Same as PHIL 3110. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Womens Studies

WMST-3135 (3) Chicana Feminisms and Knowledges

Provides insight into the present socioeconomic condition of Chicanas and the concept of feminismo through interdisciplinary study of history, sociology, literary images, and film portrayals. Prereq., ETHN 2001 or 2536 or equivalent. Same as ETHN 3136. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Womens Studies | Chicano Studies

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WMST-1006 (3) The Social Construction of Sexuality

Same as SOCY 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
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[Sociology](#)

WMST-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as SOCY 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
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WMST-3012 (3) Women and Development

Restricted to students with 57-180 credits (Junior or Senior) Womens Studies (WMST) majors only. Same as SOCY 3012. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Womens Studies (WMST) majors only.

[College of Arts & Sciences](#)
[Womens Studies](#)
[Sociology](#)

WMST-3016 (3) Marriage and the Family in the United States

Restricted to junior/senior WMST majors. Approved for arts and sciences core curriculum: United States context. Same as SOCY 3016.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3044 (3) Race, Class, Gender, and Crime

Same as SOCY 3044.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3046 (3) Topics in Sex and Gender

Same as SOCY 3046.

College of Arts & Sciences | Womens Studies | Sociology

WMST-4010 (3) Gender, Genocide, and Mass Trauma

Studies the persistence of genocide and the effects of mass trauma on women and girls. Within the framework of political and social catastrophe, the course examines cataclysmic world events and the traumatic consequences for women of religious persecution, colonialism, slavery, and the genocides of the twentieth and twenty first centuries. Prereq., SOCY 1016 or WMST 2000 or SOCY 3314. SOCY 4000 and WMST 4010 are the same course.

College of Arts & Sciences | Womens Studies | Sociology

WMST-4016 (3) Sex, Gender, and Society 2

Studies status and power differences between the sexes at individual, group, and societal levels. Examines empirically established sex differences, and reviews biological, psychological, and sociological explanations for gender differences. Prereqs., SOCY 1016 or WMST 2000. Restricted to sophomores/juniors/ seniors. Same as SOCY 4016.

College of Arts & Sciences | Womens Studies | Sociology

WMST-4086 (3) Family and Society

Restricted to junior/senior WMST majors. Same as SOCY 4086.

College of Arts & Sciences | Womens Studies | Sociology

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Courses

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ARAB-1010 (5) Beginning Arabic 1

Introduces students to speaking, listening, reading, and writing skills in the standard means of communication in the Arab world. This course is proficiency-based. All activities within the course are aimed at placing the student in the context of the native-speaking environment from the very beginning.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Arabic](#)

CHIN-1010 (5) Beginning Chinese 1

Introduces modern Chinese (Mandarin), developing all four skills (speaking, listening, reading and writing) and communicative strategies. Students learn both traditional full-form characters and the principles for converting them into simplified characters. Credit not granted for this course and CHIN 1150.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

FRSI-1010 (5) Beginning Farsi I

Provides a grounding in basic Persian Farsi grammar. The morphological and phonological nuances of the language will be introduced, along with Persian culture. Basic conversation is re-enforced on a daily basis with strong emphasis and reiteration upon the homework and covered grammar.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Farsi](#)

HIND-1010 (5) Beginning Hindi 1

Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading, and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local South Asian cultural events. Credit not granted for this course and ASIA 1420. Formerly HINDI 1010.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

INDO-1010 (5) Beginning Indonesian 1

Provides a thorough introduction to the modern Indonesian language, emphasizing speaking, listening, reading and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement.

College of Arts & Sciences | Asian Languages & Civilizations | Indonesian

JPNS-1010 (5) Beginning Japanese 1

Provides a thorough introduction to modern Japanese, emphasizing speaking, listening, reading, and writing in a cultural context.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

KREN-1010 (5) First-Year (Beginning) Korean 1

Trains students in elementary conversational and writing skills and provides grounding in the basic idiomatic and syntactical features of Korean, through lectures, drills, and language laboratory sessions based on set dialogues and readings.

College of Arts & Sciences | Asian Languages & Civilizations | Korean

TBTN-1010 (4) Beginning Colloquial Tibetan I

Provides a thorough introduction to colloquial forms of Tibetan. This course focuses on conversation practice, the acquisition of basic vocabulary and grammar in colloquial usage, learning the alphabet, and training in the skills of pronunciation, spelling and handwriting.

College of Arts & Sciences | Asian Languages & Civilizations | Tibetan

ARAB-1011 (3) Introduction to Arab and Islamic Civilizations

Provides an interdisciplinary overview of the cultures of the Arabic-speaking peoples of Southwest Asia and North Africa from the rise of Islam in the 7th century to the present. Readings include

historical, religious, literary and cultural texts from both the medieval and modern eras. Taught in English. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Arabic

FRSI-1011 (3) Introduction to Persian Civilization

An introduction to the history, literature and art of Iranian (Persian) civilization with a focus on the social and cultural aspects of contemporary Iran. Taught in English.

College of Arts & Sciences Asian Languages & Civilizations Farsi

HIND-1011 (3) Introduction to South Asian Civilizations

Survey of traditional and modern world views and experiences of people on the Indian subcontinent through literature and film, beginning with the Ramayana and including medieval tales, modern novels, and feature films. Formerly HNDI 1011. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Hindi

INDO-1011 (3) Introduction to Indonesian Civilization

Provides an overview of the past and present of Indonesia, the people, and their cultures. Discussions with guest speakers, and on films, music, and images, will allow them to get acquainted with important issues and values in today's Indonesia. A closer look to the five major islands in the archipelago will introduce them to the diversity of this nation's 234,693,997 people. Taught in English.

College of Arts & Sciences Asian Languages & Civilizations Indonesian

KREN-1011 (3) Introduction to Korean Civilization

Introduces the history of Korean culture within the context of political, social, and economic history. Covers the old Choson dynasty to present day Korea. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Korean

CHIN-1012 (3-4) Introduction to Chinese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of China. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

JPNS-1012 (3-4) Introduction to Japanese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of Japan. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese Courses in English

ARAB-1020 (5) Beginning Arabic 2

Continuation of ARAB 1010. Prereq., ARAB 1010 (min grade C) or placement.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

CHIN-1020 (5) Beginning Chinese 2

Continuation of CHIN 1010. Prereq., CHIN 1010 (min. grade C) or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

FRSI-1020 (5) Beginning Farsi II

Continuation of FRSI 1010. Completes the presentation of basic structures of Farsi. Continued acquisition of vocabulary and practice of speaking, listening, reading, and writing. Class conducted largely in Farsi. The second half of the course will introduce authentic texts of Persian prose literature. Some poetry may be included. Prereq., FRSI 1010 (min. grade C) or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Farsi

HIND-1020 (5) Beginning Hindi 2

Continuation of HIND 1010. Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading and writing skills. Proficiency-based course aims to place the student in the context of the native-speaking environment from the beginning of the course. Provides opportunities to participate in local South Asian cultural activities and events. Prereq., HIND 1010 (min. grade C) or instructor consent. Formerly HINDI 1020.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

INDO-1020 (5) Beginning Indonesian 2

Continuation of INDO1010. Provides a thorough introduction to the modern Indonesian language, emphasizing the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local Southeast Asian events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq.,

INDO 1010 (min. grade C).

College of Arts & Sciences Asian Languages & Civilizations Indonesian

JPNS-1020 (5) Beginning Japanese 2

Continuation of JPNS 1010. Prereq., JPNS 1010 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

KREN-1020 (5) First-Year (Beginning) Korean 2

Continuation of KREN 1010. Prereq., KREN 1010 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Korean

TBTN-1020 (4) Beginning Colloquial Tibetan II

Provides a thorough introduction to colloquial forms of Tibetan. This course continues the development of vocabulary and grammar begun in Tibetan I and expands the range of conversation topics. While students focus on oral and aural skills, they begin to learn to read and write modern Tibetan to produce an overall knowledge of the language. Prereq., TBTN 1010 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Tibetan

CHIN-1051 (3) Masterpieces of Chinese Literature in Translation

Surveys Chinese thought and culture through close reading and discussion of selected masterworks of Chinese literature in translation. Texts include significant works of poetry, fiction, and drama, as well as philosophical and historical writings from various eras. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

JPNS-1051 (3) Masterpieces of Japanese Literature in Translation

Surveys Japanese thought and culture through careful reading and discussion of selected masterworks of Japanese literature in translation. Texts include significant works of poetry, fiction, drama, diaries, and essays, from ancient times to the present. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

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ARAB-1010 (5) Beginning Arabic 1

Introduces students to speaking, listening, reading, and writing skills in the standard means of communication in the Arab world. This course is proficiency-based. All activities within the course are aimed at placing the student in the context of the native-speaking environment from the very beginning.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Arabic](#)

ARAB-1011 (3) Introduction to Arab and Islamic Civilizations

Provides an interdisciplinary overview of the cultures of the Arabic-speaking peoples of Southwest Asia and North Africa from the rise of Islam in the 7th century to the present. Readings include historical, religious, literary and cultural texts from both the medieval and modern eras. Taught in English. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Arabic](#)

ARAB-1020 (5) Beginning Arabic 2

Continuation of ARAB 1010. Prereq., ARAB 1010 (min grade C) or placement.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Arabic](#)

ARAB-2110 (3) Intermediate Arabic 1

Proficiency-based course emphasizes speaking, listening, reading, and writing. Covers a variety of topics. Students give classroom presentations and write short essays in Arabic. Speaking ability is assessed through an oral proficiency interview. Prereq., ARAB 1020 (min grade C), or placement. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-2120 (3) Second Year Arabic 2

Continuation of ARAB 2110. Prereq., ARAB 2110 (min grade C) or placement.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3110 (3) Advanced Arabic I

Designed to train students further in the four language skills (writing, speaking, reading, listening/comprehension) at an advanced level. Enables students to acquire a better and broader understanding of Arabic culture and texts drawn from various genres of Arabic letters. Prereq., ARAB 2120 (min. grade C). Formerly ARAB 3010.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3120 (3) Advanced Arabic II: Issues in Arabic Language and Culture for Business

Continues training in the four language skills (writing, speaking, reading, listening/comprehension) at an advanced level. Enables students to acquire a better and broader understanding of Arabic culture and texts drawn from various genres of Arabic letters. Prereq., ARAB 3010 or 3110 (min. grade C). Formerly ARAB 3020.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3230 (3) Islamic Culture and the Iberian Peninsula

Examines Islamic, especially Arab, culture and history as it relates to the Iberian Peninsula from 92 Ah/711 Ce to the present. Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3330 (3) The Arabic Novel

Focusing on the origins and development of the novel genre in the Arabic tradition, this course examines both the aesthetic qualities of the genre as an artistic form and the ways that it has depicted and intervened in the modern social, political, and cultural upheavals that have shaped the Arab world in the 20th century. Authors include Najib Mahfuz, Abd al Rahman Munif, Hanan al-Shaykh, and Ghassan Kanafani. Taught in English.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

ARAB-3340 (3) Representing Islam

Explores the cultural politics of representations of the Arab and Islamic worlds both with an emphasis on literary representations of the Islamic world in travel narratives and novels from both the West and the Arab world. Examines historical, anthropological, and visual texts to consider how Islam has been narrated in colonial European imaginings about the Islamic world as well as contemporary representations.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

ARAB-3350 (3) Narrating the City: Literary Mappings of the Urban Landscape

Examines literary narratives primarily from the Arabic tradition through focusing on the relationship of literature to the development and transformations of cities and urban spaces in the modern period. Begins with readings of 19th century European narratives that chronicle the changing space of the modern city followed by urban narratives from the Arabic literary tradition in order to comparatively examine how "universal" processes of modernization, development, and globalization in the modern world have been narrated. Writers include Mahfouz, Munif, al-Takarli, al-Aswani, Celik, Abu Lughod. Taught in English.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

ARAB-4250 (3) Arabic Media

Designed to provide students with advanced Arabic language skills for use in the media. By negotiating authentic materials in Arabic, students will gain a perspective on global issues in the Arab and Islamic world and will attain a better awareness of Arab and Islamic culture. Prereq., three years of Arabic or equivalent, or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic

ARAB-4840 (1-3) Independent Study

Departmental approval required. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Asian Languages & Civilizations | Arabic



WMST-1006 (3) The Social Construction of Sexuality

Same as SOCY 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Womens Studies](#) [Sociology](#)

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ARAB-1010 (5) Beginning Arabic 1

Introduces students to speaking, listening, reading, and writing skills in the standard means of communication in the Arab world. This course is proficiency-based. All activities within the course are aimed at placing the student in the context of the native-speaking environment from the very beginning.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Arabic](#)

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CHIN-1010 (5) Beginning Chinese 1

Introduces modern Chinese (Mandarin), developing all four skills (speaking, listening, reading and writing) and communicative strategies. Students learn both traditional full-form characters and the principles for converting them into simplified characters. Credit not granted for this course and CHIN 1150.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

CHIN-1020 (5) Beginning Chinese 2

Continuation of CHIN 1010. Prereq., CHIN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

CHIN-2110 (5) Intermediate Chinese 1

Emphasizes reading, speaking, and writing modern Chinese, including continued study of both full-form and simplified characters. Introduces dictionaries and principles of character formation. Prereq., CHIN 1020 (min. grade C) or instructor consent. Credit not granted for this course and CHIN 2150. Meets MAPS requirement: foreign language.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

CHIN-2120 (5) Intermediate Chinese 2

Continuation of CHIN 2110. Prereq., CHIN 2110 (min. grade C) or instructor consent. Credit not granted for this course and 2150.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-3110 (5) Advanced Chinese 1

Surveys a variety of authentic-language materials, including films, plays, newspaper articles, essays, and short stories. Emphasizes proficiency-oriented approach to reading, writing, and oral communication. Prereq., CHIN 2120 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-3120 (5) Advanced Chinese 2

Continuation of CHIN 3110. Prereq., CHIN 3110 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-3200 (3) Adv Wrtg Topics on Chinese & Japanese Literature and Civilization

Provides an introduction to the academic study of Chinese and Japanese literature and culture with a focus on writing skills in English through a survey of standard academic writing conventions. Review and assessment of selected textual materials, class presentation, critique, and revision. Recommended for Chinese and Japanese majors and minors. Approved for arts and sciences core curriculum: written communication. CHIN 3200 and JPNS 3200 are the same course.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-4110 (3) Advanced Readings in Modern Chinese 1

Surveys a wide variety of 20th- and 21st-century texts that are of recognized literary or cultural importance. Focuses on translation, including discussion of content and style. Prereq., CHIN 3120 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-4120 (3) Advanced Readings in Modern Chinese 2

Continuation of Chin 4110. Prereq., Chin 4110 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-4210 (4) Introduction to Classical Chinese

Introduces the classical language based on texts from the pre-Han and Han periods. Stresses precise knowledge of grammatical principles and exactitude in translation---the basis for all further work in classical Chinese. Prereq., CHIN 2120 or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CHIN-4220 (4) Readings in Classical Chinese

Close reading of selected texts of ancient and medieval literature. Readings in both prose and poetry. Emphasizes a disciplined, philological approach to the texts, with proper attention to diction, tone, and nuance. Prereq., CHIN 4210, or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CHIN-4300 (3) Open Topics: Readings in Chinese Literature

Studies selected texts on a particular topic taught by regular or visiting faculty. Topics change each term. May be repeated up to 6 total credit hours. Prereq., junior standing or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CHIN-4750 (3) Daoism

Detailed examination of scriptures, liturgies, precept codes, and hagiographies of Daoism, China's indigenous organized religion. Focusing on origins and development, ethical teachings, ritual activities and world view. Topics include the relationship of Daoism to popular religion, practice of alchemy and self-cultivation, beliefs concerning death and afterlife, and structure of the Daoist pantheon. Prereq., RLST 3800 or instructor consent. Same as CHIN 5750 and RLST 4750.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CHIN-4900 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese

CHIN-4980 (1) Practical Issues in Chinese Language Pedagogy

Focuses on practical issues in Chinese language pedagogy for students who will serve as teaching assistants in Chinese language courses. Examines the connection between theory and practice as well as practical methods for teaching Chinese. Equips students with basic Chinese linguistic knowledge. Discusses the use of Communicative Approach in teaching Chinese as a second

language. Prereq., CHIN 4120 or equivalent. Same as CHIN 5980.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-5010 (3) Sinological Methods

Provides training in research methods for graduate work in Sinology. Regular exercises require students to use standard bibliographic sources and tools, such as leishu, congshu, specialized dictionaries, dynastic histories, geographical treatises, gazetteers, and private historiography. Prereq., CHIN 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-5030 (3) Readings in Pre-Modern Chinese Literary Theory

Introduces the field of pre-modern Chinese literary theory and its relevance in Chinese intellectual history. Based on the close reading of primary sources, i.e. typically on selected core texts of Chinese literary thought, as well as on the reading of secondary literature. Texts and topics vary from year to year. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-5120 (3) History of Literature through the Ninth Century

Surveys, with readings in primary and secondary sources, major landmarks in various areas of ancient and medieval literature. Focuses on the classic and most influential works of the Zhou through Tang dynasties. Gives attention to matters of historical fact and actuality as well as to textual and interpretive history. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-5210 (3) Ancient Prose

Studies selected pre-imperial and Han prose texts important in their own time and for the influence they exercised on the later development of Chinese literary history. Focuses on works such as the Lun yu, Mengzi, Zhuangzi, Huainanzi, Shiji, Hanshu, and Lunheng. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-5220 (3) Ancient Poetry

Studies selected pre-imperial and Han poetic works important in their own time and for the influence they exercised on the later development of Chinese literary history. Focuses on the Shijing and the Chu ci, as well as the fu and shi of Han writers. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Chinese |
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CHIN-5230 (3) History of Early Chinese Thought

Introduces early Chinese philosophy, mostly "Masters' Literature" of the 5th--1st c. BCE, which is foundational for all later Chinese philosophy and political thought. Close reading of primary sources will be combined with an introduction to secondary scholarship in English and modern Chinese, both articles on individual texts/philosophers and comprehensive histories of early Chinese philosophy. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5280 (3) Topics in Ancient Literature

Examines a specific problem or issue in ancient Chinese literature, e.g., early views of language's relationship to reality, or the commentary tradition and the emergence of allegorical and metaphysical approaches to interpreting texts. Topics vary from year to year. May be repeated up to 9 total credit hours. Prereq., Chin 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5410 (3) Medieval Prose

Studies works of early medieval (ca. 200-600 AD) and/or late medieval (600-900) prose that played important role in development of Chinese literature. Writers and topics vary, ranging from surveys of specific genre, literary essays, proto-fiction, or historical writings, to focused studies of major figures Liu Zhiji, Han Yu, or Liu Zongyuan. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent required.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5420 (3) Medieval Poetry

Studies works of early medieval (ca. 200-600 AD) poetry. Writers and topics vary ranging from surveys of specific genre, shi or fu, or shared subject such as religious or commemorative verse, or specific periods, to focused studies of particular major figures Cao Zhi, Tao Qian, Li Bo, or Du Fu. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5430 (3) Medieval Thought and Religion

Studies selected works of early medieval (ca. 200-600 AD) and/or late medieval (600-900) religious importance. Selections vary from fundamental texts of both literary and religious value, Daoist and Buddhist canons, the Huangting jing, Zhen gao, Miaofa lianhua jing, and Tan jing, particular topics of social or cultural importance, character assessment, arcane learning, or methods of commentary. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

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CLAS-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. No Greek or Latin required. Same as LING 1010.

[College of Arts & Sciences](#)
[Classics](#)
[Literature, Culture, & Thought](#)

CLAS-1013 (4) Beginning Classical Greek 1

For students with no previous knowledge of Greek. Introduces basic grammar and vocabulary.

[College of Arts & Sciences](#)
[Classics](#)
[Greek](#)

CLAS-1014 (4) Beginning Latin 1

Introduces basic grammar and vocabulary. For students with no previous knowledge of Latin.

[College of Arts & Sciences](#)
[Classics](#)
[Latin](#)

CLAS-1020 (3) Argument from Evidence: Critical Writing about the Ancient World

Introduces students to writing about the ancient world, with special attention to the possibilities and the limitations of ancient source-material. Taught as a writing workshop, with emphasis on critical thinking, analysis, argument and inquiry. While the course reads foundational ancient texts, the skills acquired will be broadly useful among humanities disciplines. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-1023 (4) Beginning Classical Greek 2

Completes the presentation of grammar and introduces reading of literature. Prereq., CLAS 1013 or equivalent.

College of Arts & Sciences Classics Greek

CLAS-1024 (4) Beginning Latin 2

Completes the presentation of grammar, incorporates review of fundamentals, and introduces reading of literature. For students with previous experience of Latin. Prereq., CLAS 1014 or equivalent.

College of Arts & Sciences Classics Latin

CLAS-1030 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. No Greek or Latin required. Same as PHIL 1010. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-1051 (3) The World of the Ancient Greeks

Presents a survey of the emergence, the major accomplishments, the failures, and the decline of the ancient Greeks, from the Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.). No Greek or Latin required. Same as HIST 1051. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Classics Ancient History

CLAS-1061 (3) The Rise and Fall of Ancient Rome

Presents a survey of the rise of ancient Rome in the eighth century B.C. to its fall in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. No Greek or Latin required. Same as HIST 1061. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Ancient History

CLAS-1100 (3) Greek Mythology

Covers the Greek myths as documents of early human religious experience and imagination, the source of Greek culture, and part of the fabric of Western cultural tradition. Of particular interest to students of literature and the arts, psychology, anthropology, and history. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1110 (3) Muses and Man-eaters (1): The Literature of Ancient Greece

Surveys Greek authors whose works have most influenced Western thought: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, and Plato. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1115 (3) Masterpieces of Greek Literature in Translation

Students read about mythological heroes and historical individuals from Achilles to Socrates in Greek literature. Class discusses why the Greeks told stories the way they did and what those stories might have meant to them and might mean to us. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Honors

CLAS-1120 (3) Muses and Man-Eaters (2): The Literature of Ancient Rome

Surveys ideas and culture of the Romans through a study of representative literature: comedy, tragedy, history, philosophy, oratory, the novel, lyric, epic, and didactic poetry. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1140 (3) Bread and Circuses: Society and Culture in the Roman World

Surveys the outstanding achievements of Roman culture and society as reflected in literature; philosophy and art; private and official religion; and legal and political thought. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece and Rome, examining various ancient approaches to power, religion, death and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as ARTH 1509. Approved for arts and sciences core curriculum: historical context or literature and the arts.

College of Arts & Sciences | Classics | Art and Archaeology

CLAS-2004 (3) Accelerated Latin 1

Intensive introductory course in Latin including a survey of grammar and practice reading and writing. No previous knowledge of Latin is required. Formerly CLAS 5804.

College of Arts & Sciences | Classics | Latin

CLAS-2009 (3) Modern Issues, Ancient Times

Considers issues of vital importance to humans, both now and in ancient times. Topics such as food, death, sex, family, literacy, or power are explored to consider how ancient societal norms and attitudes evolved, and how they relate to modern culture. Draws on material and literary evidence to develop an understanding of the complexities of ancient life. Same as ANTH 2009. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Art and Archaeology

CLAS-2019 (3) Pompeii and the Cities of Vesuvius

Introduces the towns and villas buried by the eruption of Mt. Vesuvius in 79 C.E. Explores the layout and decoration of ancient Roman houses, the variety of artifacts uncovered as evidence for daily life and the history of the excavations. Same as ARTH 2019. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Art and Archaeology

CLAS-2020 (3) Science in the Ancient World

Covers the development of scientific modes of thought, theory, and research from mythological origins (e.g., Hesiod's poetry) through pre-Socratic philosophers. Culminates in theories and research of Plato and Aristotle, including the Roman Empire. Students read original sources in translation. No Greek or Latin required.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2041 (3) War and Society in Ancient Greece

Studies Greek warfare in its cultural, social, and economic contexts, in the light of anthropological comparisons and modern theories. No Greek or Latin required. Same as HIST 2041.

College of Arts & Sciences | Classics | Art and Archaeology

College of Arts & Sciences | Classics | Ancient History

CLAS-2044 (3) Accelerated Latin 2

Continuation of CLAS 2004. Reading of advanced texts: Caesar, Cicero, Ovid and others. Prereq., CLAS 2004. Formerly CLAS 3004.

College of Arts & Sciences | Classics | Latin

CLAS-2100 (3) Women in Ancient Greece

Examines evidence of art, archaeology, and literature of Greek antiquity from a contemporary feminist point of view. Focuses on women's roles in art, literature, and daily life. No Greek or Latin required. Same as WMST 2100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2110 (3) Women in Ancient Rome

Uses art, archaeology, and literature to study, from a contemporary feminist point of view, the status of women in works of Roman art and literature, the development of attitudes expressed toward them, and their daily life. No Greek or Latin required. Same as WMST 2110. Approved for GT-HI1. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2114 (4) Intermediate Latin 1

Readings from Caesar and/or Cicero, with review of grammar. Prereq., CLAS 1024, or equivalent. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences | Classics | Latin

CLAS-2124 (4) Intermediate Latin 2

Selections from Virgil's Aeneid with attention to literary form and context as well as advanced grammar and syntax. Prereq., CLAS 2114 or equivalent.

College of Arts & Sciences | Classics | Latin

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CLAS-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. No Greek or Latin required. Same as LING 1010.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

CLAS-1020 (3) Argument from Evidence: Critical Writing about the Ancient World

Introduces students to writing about the ancient world, with special attention to the possibilities and the limitations of ancient source-material. Taught as a writing workshop, with emphasis on critical thinking, analysis, argument and inquiry. While the course reads foundational ancient texts, the skills acquired will be broadly useful among humanities disciplines. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

CLAS-1030 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. No Greek or Latin required. Same as PHIL 1010. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

CLAS-1100 (3) Greek Mythology

Covers the Greek myths as documents of early human religious experience and imagination, the source of Greek culture, and part of the fabric of Western cultural tradition. Of particular interest to students of literature and the arts, psychology, anthropology, and history. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1110 (3) Muses and Man-eaters (1): The Literature of Ancient Greece

Surveys Greek authors whose works have most influenced Western thought: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, and Plato. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1120 (3) Muses and Man-Eaters (2): The Literature of Ancient Rome

Surveys ideas and culture of the Romans through a study of representative literature: comedy, tragedy, history, philosophy, oratory, the novel, lyric, epic, and didactic poetry. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-1140 (3) Bread and Circuses: Society and Culture in the Roman World

Surveys the outstanding achievements of Roman culture and society as reflected in literature; philosophy and art; private and official religion; and legal and political thought. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2020 (3) Science in the Ancient World

Covers the development of scientific modes of thought, theory, and research from mythological origins (e.g., Hesiod's poetry) through pre-Socratic philosophers. Culminates in theories and research of Plato and Aristotle, including the Roman Empire. Students read original sources in translation. No Greek or Latin required.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2100 (3) Women in Ancient Greece

Examines evidence of art, archaeology, and literature of Greek antiquity from a contemporary feminist point of view. Focuses on women's roles in art, literature, and daily life. No Greek or Latin required. Same as WMST 2100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2110 (3) Women in Ancient Rome

Uses art, archaeology, and literature to study, from a contemporary feminist point of view, the status of women in works of Roman art and literature, the development of attitudes expressed toward them, and their daily life. No Greek or Latin required. Same as WMST 2110. Approved for GT-HI1. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-2610 (3) Paganism to Christianity

Offers a cultural history of Greek and Roman religion. Students read ancient texts in translation and use evidence from archaeology to reconstruct the shift from paganism to Christianity in antiquity. No Greek or Latin required. Same as PHIL 2610. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-3400 (3) Special Topics in Classics

Topics in Greek, Latin or Classical civilization. May be repeated up to 9 total credit hours for different topics. No prerequisites.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-4040 (3) Seminar in Classical Antiquity

Examines an advanced topic in classical language, literature, history, philosophy, art, or culture. Combines the techniques of philology with a critical approach to the literary and material legacy of the past. Prereq., second-year proficiency in Greek or Latin. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-4110 (3) Greek and Roman Epic

Students read in English translation the major epics of Graeco-Roman antiquity such as the Iliad, Odyssey, Argonautica, Aeneid, and Metamorphoses. Topics discussed may include the nature of classical epic, its relation to the novel, and its legacy. No Greek or Latin required. Same as CLAS 5110 and HUMN 4110. Approved for arts and science core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-4120 (3) Greek and Roman Tragedy

Intensive study of selected tragedies of Aeschylus, Sophocles, Euripides, and Seneca in English translation. No Greek or Latin required. Same as CLAS 5120 and HUMN 4120. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-4130 (3) Greek and Roman Comedy

Studies Aristophanes, Plautus, and Terence in English translation. No Greek or Latin required. Same as CLAS 5130 and HUMN 4130. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-4140 (3) The Greek and Roman Novel

Studies five surviving complete Greek novels from classical antiquity, three Latin novels, and their predecessors and contemporary neighbors in the genres of Greek prose fiction. Readings in English translation. No required prerequisite, but a previous course in classical literature or myth is recommended. Same as CLAS 5140 and HUMN 4131.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-4840 (1-4) Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-5110 (3) Greek and Roman Epic

Same as CLAS 4110. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-5120 (3) Greek and Roman Tragedy

Same as CLAS 4120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-5130 (3) Greek and Roman Comedy

Same as CLAS 4130. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-5140 (3) The Greek and Roman Novel

Same as CLAS 4140. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-5840 (1-3) Graduate Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-6940 (1) Master's Degree Candidate

No Greek or Latin required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

CLAS-7840 (1-3) Graduate Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

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Courses

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FREN-1010 (5) Beginning French 1

For students with no previous knowledge of French. Presents basic grammar and most commonly used French vocabulary. Introduces students to Francophone culture. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

ITAL-1010 (5) Beginning Italian 1.

The four skills of listening, speaking, reading, and writing are progressively developed in a predominantly oral presentation. Grammatical concepts are explained and practiced through dialogues, written exercises, and conversations. The cultural focus is on the personal world and life of students.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

FREN-1020 (5) Beginning French 2

Continuation of FREN 1010. Completes the presentation of most basic structures and French vocabulary. Prereq., successful completion of one semester of college-level French or two years of high school French. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

ITAL-1020 (5) Beginning Italian 2

Continuation of ITAL 1010, with more difficult grammatical concepts explored. The cultural focus shifts to social and civic areas. Prereq., ITAL 1010 (min grade C-).

College of Arts & Sciences French & Italian Italian

FREN-1050 (5) Beginning French Review

Covers the material of FREN 1010 and 1020 in one accelerated semester. Intended for students who know some French (i.e., four to five semesters in high school) but do not have skills adequate for 2000-level courses. Credit not granted for this course and FREN 1010 or FREN 1020.

College of Arts & Sciences French & Italian French

FREN-1200 (3) Medieval Epic and Romance

Covers the most important works of medieval literature, in English translation. Among the texts studied are the Nibelungenlied, the Song of Roland, and Arthurian romances, including the stories of Lancelot and Guinevere and Tristan and Isolde. Offers a general introduction for nonmajors to medieval literature and society. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as ITAL 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

ITAL-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as FREN 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian Italian

FREN-1500 (3) Literature and Politics in the Age of Enlightenment

Introduces political dimensions of 18th century French literature. Surveys political and social preoccupations that manifest themselves across genres (novels, scientific treatises, dialogues, erotic literature, etc.). Examines contributions made by 18th century French writers to the sociological and political imagination of Western tradition. Taught in English.

College of Arts & Sciences French & Italian French

ITAL-1500 (3) That's Amore: Introduction to Italian Culture

Introduces students to representations of Italian society that have persisted through the ages. The course readings allow students to better understand how certain stereotypes about Italian society (e.g., Latin lover, Mafia) were born and persist in the present. Taught in English. Approved for GT-AH2. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences French & Italian Italian

ITAL-1600 (3) Strategies of Fear: Introduction to Italian Fantastic Literature

Traces the development of the fantastic theme in Italian Literature from its origins (late nineteenth century) to contemporary times. Analyzes the modes of reception and appropriation of non-Italian gothic and fantastic narrative traditions through which Italian writers have subverted the national literary model proposed by realist narrative. Approved for arts and sciences core curriculum: literature and the arts. Taught in English.

College of Arts & Sciences French & Italian Italian

FREN-1610 (3) How to Be French, 1: The Ancien Regime

Explores medieval and early modern French culture in the widest sense, encompassing masterpieces of French literature, architecture, and visual art as a key to the habits, customs, and practices of everyday life. Major themes are "living and dying," "heroes, villains, and kings," "courtliness, civility, and the art of love," and "crafty little guys." Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1620 (3) How To Be French? 2: Modernity

Introduces students to French culture in its widest sense and in particular to reflect on major social and cultural contradictions inherited from the French Revolution, which still define "Frenchness" today. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1700 (3) Francophone Literature in Translation

Studies the literary expression of French-speaking peoples of Africa, the Caribbean, and Canada. Gives special attention to oral tradition, identity, question, and cultural conflict. Taught in English. Approved for GT-AH2.

College of Arts & Sciences French & Italian French

FREN-1750 (3) French Colonialism: North Africa and the Middle East

Offers a general introduction to French and Francophone literature and visual arts (painting, photography, film) from the nineteenth century to the present depicting cultures and societies of the Middle East and North Africa. In English with English translations of French texts. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | French & Italian | French

FREN-1800 (3) Contemporary French Literature in Translation

Reviews the major philosophical, political, and aesthetic issues in the 20th century French novel and drama. Beginning with existentialist literature, discussion focuses subsequently on the Theatre of the Absurd, the new novel, World War II and the Holocaust, and recent women writers. Taught in English.

College of Arts & Sciences | French & Italian | French

FREN-1900 (3) Modern Paris in Literature, Photographs, Paintings and Movies

Introduces the rise of modern Paris from the French Revolution (1789) to today. Studies the physical and sociological changes of the city in terms of architecture and industrialization through French literature, movies, paintings and photographs. Addresses problems due to the magnitude of the city, the growing fear of urban vices, and the dilemma of controlling massive urban populations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | French & Italian | French

FREN-1950 (3) French Feminisms

Introduces students to the central problematics that have defined French feminist studies. This course focuses on the various literary and historical contexts in which core concepts such as female subjectivity and agency, feminist writing and political engagement have arisen and developed in Early Modern and Modern France by looking at multiple media (literary text, film, painting). Taught in English. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | French & Italian | French

FREN-2110 (3) Second-Year French Grammar Review and Reading 1

A film based curriculum will expand the knowledge of francophone culture and will continue the development of communication skills begun in the first year. This third semester course will review essential beginning grammar before introducing intermediate structures, vocabulary, and cultural/literary readings. Prereqs., FREN 1020 and 1050 (min grade C-) or equivalent. Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences foreign language requirement.

College of Arts & Sciences | French & Italian | French

ITAL-2110 (3) Intermediate Italian Reading, Grammar, and Composition 1

Enhances the skills learned in the first-year course and develops greater fluency in understanding and speaking. More emphasis is placed on reading and writing through the use of activities featuring cultural themes that present a realistic portrait of contemporary Italy. Taught in Italian. Prereq., ITAL 1020 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language.

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| College of Arts & Sciences | French & Italian | Italian |
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FREN-2120 (3) Second-Year French Grammar Review and Reading 2

Completes the film-based study of intermediate grammar begun in FREN 2110. Continued reading in French literature and culture, with considerable practice in writing and speaking French. Prereq., FREN 2110 (min grade C-). Fulfills the Graduate School language requirement for the Ph.D.

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| College of Arts & Sciences | French & Italian | French |
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ITAL-2120 (3) Intermediate Italian Reading, Grammar, and Composition 2

Continuation of ITAL 2110. Some reading in Italian literature and culture with considerable practice in writing and speaking Italian. Fulfills the Graduate School language requirement for the Ph.D. Prereq., ITAL 2110 (min grade C-) or equivalent.

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-2130 (3) Introduction to Literary Analysis.

Increases student's ability to read and analyze literary texts by improving vocabulary and terminology. Students read short stories, essays, short plays, and poems to acquire critical skills and improve expression of opinions and arguments in Italian. Taught in Italian. Prereq or coreq., ITAL 2120 (min grade C-) or instructor consent required.

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| College of Arts & Sciences | French & Italian | Italian |
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FREN-2500 (3) Conversation in French

Puts into practice all that has been learned in the first four semesters of college French. Builds conversational skills and confidence through acquisition of new vocabulary and a review of grammar essential to discussing different aspects of French culture. All work is in French. Prereq., FREN 2120 or equivalent.

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| College of Arts & Sciences | French & Italian | French |
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FREN-3010 (3) French Phonetics and Pronunciation

Improves students' ability to pronounce French correctly. Coursework involves the International Phonetic Alphabet, understanding the differences between pairs of sounds, and recognizing the relationship between spelling and pronunciation. Required of all FREN majors. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences | French & Italian | French

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Courses

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FREN-1010 (5) Beginning French 1

For students with no previous knowledge of French. Presents basic grammar and most commonly used French vocabulary. Introduces students to Francophone culture. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-1020 (5) Beginning French 2

Continuation of FREN 1010. Completes the presentation of most basic structures and French vocabulary. Prereq., successful completion of one semester of college-level French or two years of high school French. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-1050 (5) Beginning French Review

Covers the material of FREN 1010 and 1020 in one accelerated semester. Intended for students who know some French (i.e., four to five semesters in high school) but do not have skills adequate for 2000-level courses. Credit not granted for this course and FREN 1010 or FREN 1020.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-1200 (3) Medieval Epic and Romance

Covers the most important works of medieval literature, in English translation. Among the texts studied are the Nibelungenlied, the Song of Roland, and Arthurian romances, including the stories of Lancelot and Guinevere and Tristan and Isolde. Offers a general introduction for nonmajors to medieval literature and society. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as ITAL 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

FREN-1500 (3) Literature and Politics in the Age of Enlightenment

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College of Arts & Sciences French & Italian French

FREN-1610 (3) How to Be French, 1: The Ancien Regime

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College of Arts & Sciences French & Italian French

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College of Arts & Sciences French & Italian French

FREN-1700 (3) Francophone Literature in Translation

Studies the literary expression of French-speaking peoples of Africa, the Caribbean, and Canada. Gives special attention to oral tradition, identity, question, and cultural conflict. Taught in English. Approved for GT-AH2.

College of Arts & Sciences French & Italian French

FREN-1750 (3) French Colonialism: North Africa and the Middle East

Offers a general introduction to French and Francophone literature and visual arts (painting, photography, film) from the nineteenth century to the present depicting cultures and societies of the Middle East and North Africa. In English with English translations of French texts. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

FREN-1800 (3) Contemporary French Literature in Translation

Reviews the major philosophical, political, and aesthetic issues in the 20th century French novel and drama. Beginning with existentialist literature, discussion focuses subsequently on the Theatre of the Absurd, the new novel, World War II and the Holocaust, and recent women writers. Taught in English.

College of Arts & Sciences French & Italian French

FREN-1900 (3) Modern Paris in Literature, Photographs, Paintings and Movies

Introduces the rise of modern Paris from the French Revolution (1789) to today. Studies the physical and sociological changes of the city in terms of architecture and industrialization through French literature, movies, paintings and photographs. Addresses problems due to the magnitude of the city, the growing fear of urban vices, and the dilemma of controlling massive urban populations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1950 (3) French Feminisms

Introduces students to the central problematics that have defined French feminist studies. This course focuses on the various literary and historical contexts in which core concepts such as female subjectivity and agency, feminist writing and political engagement have arisen and developed in Early Modern and Modern France by looking at multiple media (literary text, film, painting). Taught in English. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

FREN-2110 (3) Second-Year French Grammar Review and Reading 1

A film based curriculum will expand the knowledge of francophone culture and will continue the development of communication skills begun in the first year. This third semester course will review essential beginning grammar before introducing intermediate structures, vocabulary, and cultural/literary readings. Prereqs., FREN 1020 and 1050 (min grade C-) or equivalent. Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences foreign language requirement.

College of Arts & Sciences French & Italian French

FREN-2120 (3) Second-Year French Grammar Review and Reading 2

Completes the film-based study of intermediate grammar begun in FREN 2110. Continued reading in French literature and culture, with considerable practice in writing and speaking French. Prereq., FREN 2110 (min grade C-). Fulfills the Graduate School language requirement for the Ph.D.

College of Arts & Sciences French & Italian French

FREN-2500 (3) Conversation in French

Puts into practice all that has been learned in the first four semesters of college French. Builds conversational skills and confidence through acquisition of new vocabulary and a review of grammar essential to discussing different aspects of French culture. All work is in French. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences French & Italian French

FREN-3010 (3) French Phonetics and Pronunciation

Improves students' ability to pronounce French correctly. Coursework involves the International Phonetic Alphabet, understanding the differences between pairs of sounds, and recognizing the relationship between spelling and pronunciation. Required of all FREN majors. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences French & Italian French

FREN-3020 (3) French Phonetics Through Musical Performance

Advanced oral practice and interpretation of a French Musical. This course of applied and corrective phonetics concentrates on developing good pronunciation and fluency through song. The course culminates with a public presentation of the musical studied in class. Prereq., FREN 3010 or equivalent and instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3050 (3) French Composition 1

French third-year level composition course. Students practice and write different forms of formal French writing. They also hone their grammar skills and analytical reading of short literature pieces. Must be taken before FREN 3060. Required for French majors. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences French & Italian French

FREN-3060 (3) French Composition 2

The second semester of a French third-year level composition course. Students build on their previous knowledge of formal writing in French and more emphasis is given to argumentative and analytical style of writing in FREN 3060. Prereq., FREN 3050 or equivalent. Required for French majors.

College of Arts & Sciences French & Italian French

FREN-3100 (3) Introduction to Critical Reading and Writing in French Literature

Study of French literature through close readings of representative examples of major literary forms (poetry, fiction, drama, essay) and through the composition of critical writings in French. Required for French majors. Prereq., FREN 3060. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3110 (3) Main Currents of French Literature 1

Surveys French literature from the Middle Ages through the 18th century. Students are expected to acquire a fairly detailed knowledge of principal writers and schools of the periods covered. Required for majors. Prereq., FREN 3100. May be taken with FREN 3120. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3120 (3) Main Currents of French Literature 2

Surveys 19th and 20th century French literature. Close reading of selected texts of the principal writers and schools. Required for majors. Prereq., FREN 3100. May be taken before, after, or with FREN 3110. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3200 (3) Introduction to Literary Theory and Advanced Critical Analysis

Introduces important aspects of both classical and modern literary theory as an aid to reading and understanding literary texts. Covers theoretical works by figures ranging from Plato and Aristotle to modern French critics such as Barthes, Foucault, and Derrida in conjunction with selected literary works. Offers students more sophisticated means of understanding issues like gender, ethnicity, the roles of both author and reader in constructing meaning, the nature and functions of signs, and the relationship between literature and the larger society. Conducted in English, though French majors are required to read the texts in the original language. Required for students taking honors in French or Italian. Prereq., FREN 3100 or instructor consent. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-3500 (3) French Current Events: Conversation and Composition

For students who have spent fewer than four months in a French-speaking environment. Focuses on presentations, debates, discussions, readings, and written work. Prereq., FREN 3060 or equivalent.

[College of Arts & Sciences](#) | [French & Italian](#) | [French](#)

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FRSI-1010 (5) Beginning Farsi I

Provides a grounding in basic Persian Farsi grammar. The morphological and phonological nuances of the language will be introduced, along with Persian culture. Basic conversation is re-enforced on a daily basis with strong emphasis and reiteration upon the homework and covered grammar.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-1011 (3) Introduction to Persian Civilization

An introduction to the history, literature and art of Iranian (Persian) civilization with a focus on the social and cultural aspects of contemporary Iran. Taught in English.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-1020 (5) Beginning Farsi II

Continuation of FRSI 1010. Completes the presentation of basic structures of Farsi. Continued acquisition of vocabulary and practice of speaking, listening, reading, and writing. Class conducted largely in Farsi. The second half of the course will introduce authentic texts of Persian prose literature. Some poetry may be included. Prereq., FRSI 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-2110 (4) Intermediate Farsi I

Provides an intensive introduction to cultural and literary texts of Iran, along with an introduction of the grammatical and rhetorical complexities of Persian prose and poetry. Students continue to develop speaking, listening, and writing skills through activities based on the readings. Prereq., FRSI 1020 (min. grade C) or instructor consent. Meets MAPS requirement: foreign language. Approved for arts and sciences core curriculum: foreign language. Formerly FRSI 2010.

College of Arts & Sciences Asian Languages & Civilizations Farsi

FRSI-2120 (4) Intermediate Farsi II

Continuation of FRSI 2110. Incorporates more readings in Persian literature, both poetry and prose, and cultural readings. Students continue developing speaking, listening and writing skills based on the readings. Prereq., FRSI 2110 (min. grade C) or instructor consent. Formerly FRSI 2020.

College of Arts & Sciences Asian Languages & Civilizations Farsi

FRSI-3110 (3) Advanced Farsi I

An intensive introduction to both Persian philology and the contemporary novel. Textual analysis of texts ranging from complex to very complex will enable the students to gain a strong grounding in Persian literary texts. Students continue developing speaking, listening, and writing skills through activities based on the readings. Prereq., FRSI 2020 (min. grade C) or instructor consent. Formerly FRSI 3010.

College of Arts & Sciences Asian Languages & Civilizations Farsi

FRSI-3120 (3) Advanced Farsi II

This course is the continuation of Farsi 3110. The focus will be on textual analysis and discussion of authentic texts in a wide variety of genres and a wide range of topics. Students continue developing speaking and listening skills through activities based on the readings and develop the ability to write short papers (3-5 pages) in Farsi. Prereq., FRSI 3110 (min. grade C) or instructor consent. Formerly FRSI 3120.

College of Arts & Sciences Asian Languages & Civilizations Farsi

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Courses

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GEOL-1010 (3) Introduction to Geology

Introductory geology for majors and nonmajors. Studies Earth, its materials, its characteristics, its dynamic processes, and how it relates to people. Separate lab (GEOL 1030) is optional. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Geological Sciences](#)

GEOL-1020 (3) Introduction to Earth History

Examines how Earth's interior and surface, the atmosphere and climate, the oceans, and life interact and have changed over the immensity of geologic time. For majors and non-majors. Separate lab (GEOL 1030) is optional. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1040. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Geological Sciences](#)

GEOL-1030 (1) Introduction to Geology Laboratory 1

Features field trips to local points of geologic interest. Studies rocks and topographic and geologic maps. Prior or current registration in 1000-level geology recommended. Approved for GT-SC1. Meets MAPS requirements for natural science lab, if taken with GEOL 1010. Approved for arts and sciences core curriculum: natural science. Formerly GEOL 1080.

[College of Arts & Sciences](#) [Geological Sciences](#)

GEOL-1040 (3) Geology of Colorado

Reviews the geologic evolution and history of Colorado. It first develops the basic concepts needed to interpret the geology, and then systematically shows how the state evolved through geologic time. The course is designed for those who enjoy understanding the beauty and splendor of the state. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1020. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-1060 (3) Global Change---An Earth Science Perspective

Focuses on evidence for planetary warming, climate change, glacier and ice-sheet melting, and sea level rise both now and in the recent past. Attempts to develop understanding of the interactions within the coupled Earth system that regulate such changes. Utilizes examples from the geological and instrumental records, and evaluates the global warming forecast. Prereq., GEOL 1010. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-2001 (4) Planet Earth

Explores the dynamics of planet Earth with particular emphasis on the factors that make the planet habitable. Includes examination of heat balance, hydrology, geomorphology, biogeochemistry and climate history through both lecture and lab-based activities. The course is required for the Environmental Geoscience track within the Geology major and will introduce students to the major concepts in contemporary Earth system science. Prereqs., GEOL 1010, 2100 or ENVS 1000 or instructor consent required.

College of Arts & Sciences Geological Sciences

GEOL-2040 (3) The Search for Life in the Universe

Introduces the scientific basis for the possible existence of life elsewhere in the universe. Includes origin and evolution of life on Earth and the search for evidence of life in our solar system, especially Mars and Jupiter's moon Europa. Discusses the conditions necessary for life and whether they might arise on planets around other stars. Same as ASTR 2040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-2100 (3) Environmental Geology

Introduces the influences of geologic processes on human lives and the changes human actions cause in geologic systems. Uses examples and case studies from Colorado and the West. Approved for the arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-2700 (2) Introduction to Field Geology

Introduces basic field techniques necessary to collect geologic data and samples, and necessary to map geologic units. Prereqs., GEOL 1030 and either GEOL 1010 and 1020; or GEOL

1010 and 1040; or GEOL 1010 and 1060; or GEOG 1001 and 1011.

College of Arts & Sciences Geological Sciences

GEOL-3010 (3) Introduction to Mineralogy

Two lects. and one lab per week. Origin, occurrence, identification, classification, and uses of minerals. Applications of mineralogy to economic geology and petrology are emphasized. Prereq., Chem 1111 and Math 1300.

College of Arts & Sciences Geological Sciences

GEOL-3020 (3) Petrology

Field relations, petrography, petrology, chemistry, and origins of igneous and metamorphic rocks are studied by means of lectures, reading, and lab and field experience. Labs include instruction in the fundamentals of optical petrography and the study of rocks in thin section. Prereq., GEOL 3010.

College of Arts & Sciences Geological Sciences

GEOL-3023 (4) Statistics for Geography

Introduces parametric and distribution-free statistics, emphasizing applications to earth science problems. Same as GEOG 3023.

College of Arts & Sciences Geological Sciences

GEOL-3030 (3) Introduction to Hydrogeology

Introduces groundwater flow concepts, hydrologic cycle, physical and chemical properties, flow net, hydraulic potential, geologic controls on heterogeneity and anisotropy, aquifers and aquitards in a geologic system, saturated and unsaturated flow, flow to a well, pumping tests, and role of groundwater in geologic processes. Prereqs., GEOL 1010 or 2001, and MATH 1300; or instructor consent.

College of Arts & Sciences Geological Sciences

GEOL-3040 (3) Global Change: The Recent Geological Record

Geological records in lakes, oceans, deserts, and around glaciers indicate the significant changes in the global systems that have taken place over the last few hundred or thousand years. Explores the timing and nature of these changes. Prereqs., any two-course sequence of natural science core courses. Credit not granted for this course and GEOL 4070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-3050 (2) GIS for Geologists

Introduction to Geographic Information Systems (GIS) techniques focused on geological applications. GIS analyzing, mapping, and GPS use are covered. Basic computer skills are a plus before entering the class.

College of Arts & Sciences | Geological Sciences

GEOL-3070 (3) Introduction to Oceanography

Investigates the broad-scale features and dynamics of Earth's oceans. The course is roughly divided amongst the four major, interrelated disciplines of oceanography: marine geology, marine chemistry, physical oceanography (i.e. circulation), and marine biology. Specific topics include seafloor spreading, marine sediments, salinity, biogeochemical cycles, currents, waves, tides, primary production, marine ecology, marine resources, global warming, and much more. Prereq., any two-course sequence of natural science courses. Same as ATOC 3070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geological Sciences

GEOL-3090 (3) Developing Scientific Writing Skills

Focuses on the development of scientific writing skills. Enhances student ability to write professionally, revise text, and review the work of others. Writing assignments integrate the subject matter of different topics in earth science. Prereq., a lower division writing course and one of the following: GEOL 2001, 2700, 3010, 3030, 3120, 3230, 3320, 3430, or 3820. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Geological Sciences

GEOL-3120 (4) Structural Geology

Geometrical techniques for describing and illustrating geological structures. Major topics include graphic methods and geometry of fractures and folds. Prereqs., any 1000-level sequence in geological sciences.

College of Arts & Sciences | Geological Sciences

GEOL-3130 (3) Global Warming: Understanding the Forecast

Uses the example of man-made climate change to develop an analytical understanding of the Earth system (solid, fluid, and living) that can be used to interpret the complex and uncertain forecast. Emphasis is given to the concepts of forcing, feedback and response in order to examine natural vs. man-made environmental changes and climate change mitigation strategies.

College of Arts & Sciences | Geological Sciences

GEOL-3230 (3) Earth Materials

Provides introduction to the classification, composition and properties of Earth rocks and minerals, with emphasis on near surface Earth materials. Two lectures and one lab per week. Labs include instruction on optical mineralogy and on the study of rocks in thin section. Prereqs., CHEM 1111 and MATH 1300.

College of Arts & Sciences Geological Sciences

GEOL-3300 (3) Extraterrestrial Life

Discusses the scientific basis for the possible existence of extraterrestrial life. Includes origin and evolution of life on Earth; possibility of life elsewhere in the solar system, including Mars; and the possibility of life on planets around other stars. Prereq., one-year sequence in a natural science. Same as ASTR 3300.

College of Arts & Sciences Geological Sciences

GEOL-3320 (3) Introduction to Geochemistry

Introduces chemical principles as applied to geologic processes. Includes an introductory discussion of mineral and rock chemistry, aqueous geochemistry, and organic geochemistry. Prereqs., CHEM 1111, CHEM 1133, and MATH 1300.

College of Arts & Sciences Geological Sciences

GEOL-3410 (3) Paleobiology

Surveys morphology, ecology, and evolution of ancient animal and plant life and their interactions on Earth. Fossils used to solve geological and biological problems. Prereqs., any 1000-level sequence in geological science or environmental, population, and organismic biology or instructor consent.

College of Arts & Sciences Geological Sciences

GEOL-3430 (4) Sedimentology and Stratigraphy

Introduces the study of sedimentary rocks emphasizing their origin, characteristics, and interpretation; and the principles and techniques for establishing the temporal order and spatial distribution of sedimentary layers. Prereq., GEOL 1010 and GEOL 1020 or 1040, and GEOL 1030, and GEOL 2700 or 3010, or instructor consent.

College of Arts & Sciences Geological Sciences

GEOL-3500 (3) Earth Resources and the Environment

Examines Earth's most important natural resources and their impact on society and the environment. Addresses the geology, occurrence, production, and use of petroleum, coal, mineral, and water resources. Future world energy supply and demand, conservation, and the transition from fossil fuels to non-polluting renewable resources are discussed. Prereq., GEOL 1010 or 1060. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geological Sciences

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CHIN-1010 (5) Beginning Chinese 1

Introduces modern Chinese (Mandarin), developing all four skills (speaking, listening, reading and writing) and communicative strategies. Students learn both traditional full-form characters and the principles for converting them into simplified characters. Credit not granted for this course and CHIN 1150.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Chinese](#)

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CLAS-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. No Greek or Latin required. Same as LING 1010.

[College of Arts & Sciences](#) | [Classics](#) | [Literature, Culture, & Thought](#)

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FREN-1010 (5) Beginning French 1

For students with no previous knowledge of French. Presents basic grammar and most commonly used French vocabulary. Introduces students to Francophone culture. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

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FRSI-1010 (5) Beginning Farsi I

Provides a grounding in basic Persian Farsi grammar. The morphological and phonological nuances of the language will be introduced, along with Persian culture. Basic conversation is re-enforced on a daily basis with strong emphasis and reiteration upon the homework and covered grammar.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Farsi](#)

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GEOL-1010 (3) Introduction to Geology

Introductory geology for majors and nonmajors. Studies Earth, its materials, its characteristics, its dynamic processes, and how it relates to people. Separate lab (GEOL 1030) is optional. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Geological Sciences](#)

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GRMN-1010 (4) Beginning German 1

For students with no previous training in German. Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[German](#)

HEBR-1010 (4) Beginning Hebrew 1

First semester Hebrew is a beginning level course designed for students who have little or no prior knowledge of Hebrew. Begins with learning the Hebrew alphabet and immediately starts developing rudimentary Hebrew conversational, reading and writing skills. By the end of the semester students are expected to have attained basic understanding and expressive abilities in Hebrew.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Hebrew](#)

NORW-1010 (4) Beginning Norwegian 1

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Norwegian](#)

RUSS-1010 (4) Beginning Russian 1

For students with no previous training in Russian. Credit not granted for this course and RUSS 1050.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

SWED-1010 (4) Beginning Swedish 1

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish

YIDD-1010 (4) Beginning Yiddish 1

Introduces students to speaking, listening, reading, and writing skills in the historic language of Ashkenazic Jewry. Uses grammar as point of departure for development of oral skills.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish

GRMN-1020 (4) Beginning German 2

Prereq., GRMN 1010 (min grade of C-). Credit not granted for this course and GRMN 1030.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

HEBR-1020 (4) Beginning Hebrew 2

Second semester builds on Hebrew skills introduced in the first semester, with a focus on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms. The course blends a communicative method with formal grammatical instruction. By the end of this semester students are expected to be able to converse in, comprehend, and produce written basic Hebrew. Prereq., HEBR 1010 (min. grade C-) or instructor consent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

NORW-1020 (4) Beginning Norwegian 2

Prereq., NORW 1010 with a grade of C- or better.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian

RUSS-1020 (4) Beginning Russian 2

Continuation of RUSS 1010. Prereq., RUSS 1010 (min grade of C-). Credit not granted for this course and RUSS 1050.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

SWED-1020 (4) Beginning Swedish 2

Prereq., SWED 1010 (min grade of C-).

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish

YIDD-1020 (4) Beginning Yiddish 2

Continuation of YIDD 1010. Prereq., YIDD 1010 (min. grade C-) or placement.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish

GRMN-1030 (5) Intensive Beginning German

Covers the same material as GRMN 1010 and GRMN 1020 in one course. Focuses on acquiring ability to understand and speak everyday German; on developing reading and writing skills; and on learning about the cultures of the German-speaking countries. Credit not granted for this course and GRMN 1010 and GRMN 1020.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

HEBR-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as JWST 1030.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

RUSS-1050 (5) Intensive Beginning Russian

Covers same material as RUSS 1010 and RUSS 1020 combined in one course. Focuses on acquiring basic grammar (all cases for nouns, adjectives and possessives, verb conjugations, in all three tenses), and ability to understand and speak basic everyday Russian. Develops basic reading and writing skills and provides exposure to the fundamentals of the Russian culture. Credit not granted for this course and RUSS 1010 or 1020.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

SCAN-1202 (3) Tolkien's Nordic Sources and the Lord of the Rings

Examines the Nordic aspect of J.R.R. Tolkien's work, especially The Lord of the Rings. The course concentrates on the Nordic saga tradition, mythology, folklore and fairy tales Tolkien used as his sources. Students will explore the transformations of these sources from prehistoric times to contemporary cinematic adaptations, while paying special attention to cultural appropriations, national revisions, and political alterations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

GRMN-1500 (3) German for Reading Knowledge

Designed especially for graduate students. Emphasizes analytical skills for acquiring reading proficiency in specialized and technical German in one's field of research. Recommended for pass/fail registration. Does not satisfy the arts and sciences foreign language requirement. Does not count towards the German major.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-1601 (3) Germany Today

Introduces the culture of contemporary German-speaking central Europe, examining historical processes, social and political patterns, and the intellectual and artistic responses to problems of the 20th and 21st centuries. Taught in English. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German Courses Taught in Engl

GRMN-1602 (3) Metropolis and Modernity

An interdisciplinary introduction to the modern industrial city in Europe and the USA, with particular attention to the representation of urbanism in the visual arts. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German Courses Taught in Engl

GRMN-1701 (3) Nature and Environment in German Literature and Thought

Critically examines titles in German literature and thought. Nature and environment are used to explore alienation, artistic inspiration, nihilism, exploitation, sexuality, rural versus urban, meaning of

the earth, cultural renewal, identity and gender. This "Green" survey of German classics spans Romanticism's conception of nature as unconscious spirit to the politics and values of contemporary Germany's Green Party. Taught in English. Same as HUMN 1701. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German Courses Taught in Engl

NORW-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian

RUSS-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

SCAN-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SWED-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish

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GRMN-1010 (4) Beginning German 1

For students with no previous training in German. Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[German](#)

GRMN-1020 (4) Beginning German 2

Prereq., GRMN 1010 (min grade of C-). Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[German](#)

GRMN-1030 (5) Intensive Beginning German

Covers the same material as GRMN 1010 and GRMN 1020 in one course. Focuses on acquiring ability to understand and speak everyday German; on developing reading and writing skills; and on learning about the cultures of the German-speaking countries. Credit not granted for this course and GRMN 1010 and GRMN 1020.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[German](#)

GRMN-1500 (3) German for Reading Knowledge

Designed especially for graduate students. Emphasizes analytical skills for acquiring reading proficiency in specialized and technical German in one's field of research. Recommended for pass/fail registration. Does not satisfy the arts and sciences foreign language requirement. Does not count towards the German major.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-2010 (4) Intermediate German 1

Review and continuation of basic skills begun in the first year: reading, writing, speaking, and oral comprehension. Prereq., GRMN 1020 or 1030 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences language requirement. Credit not granted for this course and GRMN 2030.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-2020 (4) Intermediate German 2

Prereq., GRMN 2010 (min grade C-). Credit not granted for this course and GRMN 2030.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-2030 (5) Intensive Intermediate German

Covers the same material as GRMN 2010 and GRMN 2020 in one semester. Offers review and continuation of basic skills begun in the first year: reading, writing, speaking and oral comprehensive. Prereq., GRMN 1020 or GRMN 1030 (min grade C-), or instructor consent. Credit not granted for this course and GRMN 2010 and GRMN 2020. Meets MAPS requirement for foreign language. Approved for arts and sciences core curriculum: foreign language.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3010 (3) Advanced German 1

Reviews special grammatical topics, reading, and conversation. Students have the option of taking the internationally recognized exam *Zertifikat Deutsch* in GRMN 3010. Prereq., four semesters of college German or equivalent. Open to freshmen with instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3020 (3) Advanced German 2

Expands and refines skills acquired in GRMN 3010. Students acquire a varied, precise, and idiomatically advanced vocabulary; an understanding of different registers, from the casual to the very formal; and an ability to communicate effectively in spoken and written German in a variety of social situations, including professional life. Prereq., GRMN 3010 or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3030 (3) Business German

Introduces students to the language of German business and economic life. Provides insights into everyday business practices and institutions, including Germany's position in the European and world markets. Emphasizes acquiring basic business vocabulary and writing business letters and resumes in German. Prepares students for the exam Deutsch fuer den Beruf, a diploma recognized worldwide by business and industry. Prereq., GRMN 2020 or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3110 (3) German Literature from the Avant-garde to the Postmodern

Examines selected literary texts. Emphasizes longer unedited texts as well as critical skills. May be taken either before or after GRMN 3120. Prereq., GRMN 2020 or equivalent, or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3120 (3) German Literature from the Enlightenment to Expressionism

Examines selected literary texts of various periods. Emphasizes longer texts and critical skills. May be taken either before or after GRMN 3110. Prereq., GRMN 2020 or equivalent, or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3130 (3) Issues in German Philosophy and Literature

Examines selected interdisciplinary texts from the German literary and philosophical tradition. Topics address issues central to philosophical inquiry, and may include knowledge and its limits, mind and body, determinism and free will, reason and religious belief, and ethical problems. Prereqs., GRMN 2020 or 2030, or equivalent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3140 (3) Current Issues in German Literature

Examines issues pervading contemporary German literature, such as concerns of youth, gender, stereotyping as it affects women and men in their relations with one another, loneliness and sexual frustration, work experiences, and other issues. Prereq., ability to read unedited German and to speak German.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German |
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GRMN-3150 (3) Issues in German Politics and Literature

Examines literary and theoretical texts in German about the relationship between literature and politics. Topics may include history and revolution, political theater, feminist aesthetics, or terrorism. Readings and discussion in German. Prereqs., GRMN 2020 or GRMN 2030, or equivalent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-3520 (3) Open Topics in the Cultural Context

Examines topics in the cultures of German-speaking central Europe. Contact the departmental office for specific course offerings. May be repeated up to 6 total credit hours when topic varies. Prereq., GRMN 3020 or equivalent, or instructor consent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-3930 (1-6) Internship

Provides an academically supervised opportunity for upper-division students to earn credit while working for public or private organizations. Students apply skills and knowledge earned in the major, and supplement their work experience through directed readings and assignments. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) German Studies (GRMN) majors only.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-4010 (3) Advanced Grammar and Stylistics

Offers a complete final review of German grammar and syntax and its more complex aspects. Prepares students for the Goethe-Zertifikat C1. Prereq., GRMN 3020 or instructor consent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-4330 (3) The Age of Goethe

German literature from 1770 to 1830. Close examination of representative texts from the periods of Sturm und Drang, classicism, and romanticism. Emphasizes philosophical and social background. Prereq., GRMN 3020 or instructor consent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German

GRMN-4340 (3) Seminar in German Literature

Intensive study of a particular literary period, author, or genre. Secondary sources are used. Course content differs each time. May be repeated up to 6 total credit hours when topic varies. Prereq., GRMN 3020 or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4450 (3) Methods of Teaching German

Required of students who desire the recommendation of the department for secondary school teaching positions. For student teaching in German, see EDUC 4712 under the School of Education. Restricted to students who have been admitted to the teacher education program in the School of Education. Prerequisites: Restricted to EDUC Majors only.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4460 (6) High School German Teaching

Part of the supervised student teaching in a secondary school required for state certification to teach German. Restricted to students who have been admitted to the teacher education program in the School of Education. Prerequisites: Restricted to EDUC Majors only.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4550 (3) Senior Seminar: The Roles of Intellectuals and Academics in German Culture

Examines the articulation of the German bourgeoisie during critical periods in German history. Looks at specific groups and their participation in German public culture, e.g., writers, artists, journalists, academics, and political figures. Students work closely with a faculty advisor during the semester and are expected to produce a major research paper. Prereq., GRMN 3020 or instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) German (GRMN) or School of Education (EDUC) majors only.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Germanic & Slavic Languages & Literature German



Courses

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HEBR-1010 (4) Beginning Hebrew 1

First semester Hebrew is a beginning level course designed for students who have little or no prior knowledge of Hebrew. Begins with learning the Hebrew alphabet and immediately starts developing rudimentary Hebrew conversational, reading and writing skills. By the end of the semester students are expected to have attained basic understanding and expressive abilities in Hebrew.

[College of Arts & Sciences](#)
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[Hebrew](#)

HEBR-1020 (4) Beginning Hebrew 2

Second semester builds on Hebrew skills introduced in the first semester, with a focus on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms. The course blends a communicative method with formal grammatical instruction. By the end of this semester students are expected to be able to converse in, comprehend, and produce written basic Hebrew. Prereq., HEBR 1010 (min. grade C-) or instructor consent.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Hebrew](#)

HEBR-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as JWST 1030.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Hebrew](#)

HEBR-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew |
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HEBR-2110 (4) Intermediate Hebrew 1

Third semester Hebrew builds on skills introduced in the first two semesters and focuses on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms, modes of expression and syntactical forms. The course blends a communicative method with formal grammatical instruction. By the end of the semester students are expected to be able to converse in, comprehend, and produce written Hebrew at an intermediate level. Prereq., HEBR 1020 (min. grade C-) or instructor consent. Approved for GT-AH4. Meets MAPS requirement for foreign language.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew |
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HEBR-2120 (4) Intermediate Hebrew 2

Focuses on texts, while still developing speaking, comprehension and writing skills. Students build on grammatical understanding while learning some of the more sophisticated verbal paradigms and nominal patterns. The course blends a communicative method with some formal grammatical instruction. By the end of this semester students are expected to converse in, comprehend, and produce written Hebrew at an intermediate level. Prereq., HEBR 2110 (min. grade C-) or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew |
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HEBR-2350 (3) Introduction to Jewish Culture

Explores the development and expressions of Jewish culture as it moves across the chronological and geographical map of the historic Jewish people, with an emphasis on the variety of Jewish ethnicities and their cultural productions, cultural syncretism, and changes. Sets the discussion in a historical context, and looks at cultural representations that include literary, religious, and visual texts. Taught in English. Same as JWST 2350. Approved for arts and sciences core curriculum: human diversity.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew |
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HEBR-2352 (3) Introduction to Modern Jewish History

Explores the major historical events and socio-cultural themes in modern Jewish history including the French Revolution, the rise of modern anti-Semitism, the international migration of Jews, the Holocaust, and the establishment of Israel. Taught in English. Recommended prereq., HEBR 2350.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew |
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HEBR-2551 (3) Jewish Literature: Jews Coming of Age

Study the work of Jewish writers in English and English translation. Looks at a broad spectrum of texts which show the various ways Jewish authors and poets across time and space have understood the world. Themes will include questions of secularity and tradition, diaspora, exile and citizenship, and the changes of modernity (social and political emancipation, world-wide wars, cultural transformation, new homelands). HEBR 2551 and JWST 2551 are identical courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-3010 (3) Third Year Hebrew, First Semester

Focuses on students' active Hebrew language skills acquired in the first four semesters of Hebrew at CU Boulder in weekly conversation and composition sessions. Develops grammatical understanding with a further exploration of the root, verbal and noun systems. Students are introduced to texts in contemporary Hebrew fiction and poetry, as well as some biblical readings. Prereq., HEBR 2120 (min grade C-) or instructor consent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-3020 (3) Third Year Hebrew, Second Semester

Focuses on students' Hebrew language skills acquired in the first five semesters of Hebrew at CU Boulder in weekly conversation and composition sessions. Develops grammatical understanding with a further exploration of the root, verbal and noun systems. Students are introduced to texts in contemporary Hebrew fiction and poetry, as well as some biblical readings, academic texts and Israeli newspapers. Prereq., HEBR 3010 (minimum grade C-) or instructor consent.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-3202 (3) Women, Gender & Sexuality in Jewish Texts & Traditions

Reads some of the ways Jewish texts and traditions look at women, gender and sexuality from biblical times to the present. Starts with an analysis of the positioning of the body, matter and gender in creation stories, moves on to the gendered aspects of tales of rescue and sacrifice, biblical tales of sexual subversion and power, taboo-breaking and ethnos building, to rabbinic attitudes towards women, sexuality and gender and contemporary renderings and rereadings of the earlier texts and traditions. Taught in English. Same as JWST 3202. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-3840 (3) Independent Study

Prereqs., HEBR 1010, 1020, 2110, and 2120.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-3850 (3) Independent Study

Prereqs., HEBR 1010, 1020, 2110, 2120, and 3840.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-4101 (3) Topics in Hebrew Studies

Explores topics in Hebrew and Jewish literature and cultures. These may include topics such as diasporic literatures, Jewish artists and thinkers, courses on specific authors, figures or communities. Topics change each semester. May be repeated up to 9 total credit hours. Taught in English. HEBR 4101 and JWST 4101 are the same course.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-4203 (3) Israeli Literature: Exile, Nation, Home

Examines the creation and development of Israeli literature from its pre-State beginnings to the present day, from the writings of immigrants for whom Hebrew was not their mother tongue to a literature written by native Hebrew speakers. Considers texts written by Israeli Jewish and Arab writers and explores how ideas of exile, nation, and home play into the Israeli experience.

Recommended prereqs., ENGL/JWST 3677, GRMN/JWST 2502; GRMN/JWST 3503; HEBR/JWST 2551; WRTG/JWST 3020. Same as JWST 4203. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

HEBR-4301 (3) Venice: the Cradle of European Jewish Culture.

Explores the development of European Jewish culture from the late Middle Ages to the present by focusing on Jewish life in the city of Venice, Italy. Emphasis is on the development of Venetian print culture and emergence of Italy as a center of Jewish publishing in both the religious and secular world. The course examines a variety of cultural and historical material including early printings of the Talmud, the creation of Yiddish popular literature, Hebrew rabbinic literature, responses to political turmoil, and the aftermath of the Nazi genocide. Taught in English. Prereq., HEBR/JWST 2350. HEBR 4301 and JWST 4301 are the same course. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Hebrew

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Courses

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HIND-1010 (5) Beginning Hindi 1

Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading, and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local South Asian cultural events. Credit not granted for this course and ASIA 1420. Formerly HNDI 1010.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Hindi](#)

HIND-1011 (3) Introduction to South Asian Civilizations

Survey of traditional and modern world views and experiences of people on the Indian subcontinent through literature and film, beginning with the Ramayana and including medieval tales, modern novels, and feature films. Formerly HNDI 1011. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Hindi](#)

HIND-1020 (5) Beginning Hindi 2

Continuation of HIND 1010. Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading and writing skills. Proficiency-based course aims to place the student in the context of the native-speaking environment from the beginning of the course. Provides opportunities to participate in local South Asian cultural activities and events. Prereq., HIND 1010 (min. grade C) or instructor consent. Formerly HNDI 1020.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Hindi](#)

HIND-2110 (5) Intermediate Hindi 1

Emphasizes speaking, listening, reading and writing skills and culturally appropriate language use. Credit not granted for this course and ASIA 2420. Prereq., HIND 1020 (min grade C) or instructor consent. Meets MAPS requirement for foreign language. Formerly HIND 2010.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-2120 (5) Intermediate Hindi 2

Continuation of HIND 2110. Enhances students' speaking, listening, reading and writing skills and culturally appropriate language use. Prereq., HIND 2110 (min. grade C) or instructor consent. Formerly HIND 2020.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-2441 (3) Screening India: A History of Bollywood Cinema

Provides a critical overview of one of the world's largest and most beloved film industries, the popular Hindi cinema produced in Bombay (Mumbai) and consumed around the world under the label "Bollywood". Focus on the post-Independence era to the present, with introduction to key films, directors, stars, genres, formal techniques, and themes, as well as critical analyses of these and other topics. Formerly HINDI 2441.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3110 (3) Advanced Hindi 1

Emphasizes speaking, listening and conversational fluently in Hindi, with a focus on cultural appropriate expression and practical knowledge. . Prereq., HIND 2120 (min. grade C) or instructor consent. Formerly HIND 3010.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3120 (3) Advanced Hindi 2

Continuation of HIND 3110. Emphasizes reading, listening, and speaking fluency in Hindi-Urdu, with a focus on literary, cinematic and cultural themes in modern and contemporary Hindi-Urdu media and culture. Thematic focus of the course may change each semester. An effort will be made to encourage students to put their language skills into literary and cultural context. Prereq., HIND 3110 (min. grade C) or instructor consent. Formerly HIND 3020.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3400 (3) Special Topics

Topics in Hindi. May be repeated up to 6 total credit hours for different topics. No prerequisites.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3651 (3) Living Indian Epics: The Ramayana and the Mahabharata in the Modern Political Imagination

Explores the Ramayana and Mahabharata, two fundamental mythological pillars of Indian society, through literature, comic books, film, television, and political rhetoric as a means of examining major issues of religion, gender, popular culture, and social politics in contemporary India.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3661 (3) South Asian Diasporas: Imagining Home Abroad

Examines fundamental questions of home, nation, identity, ethnicity, and foreignness in the context of the enormous South Asian diaspora. By means of literature, ethnography, and film, the various connotations of diaspora will be explored along with the cultural productions of members of the South Asian diaspora (both Indian and Pakistani).

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3811 (3) The Power of the Word: Subversive and Censored 20th Century Indo-Pakistani Literature

Provides an overview of a selection of writings by important 20th century Indo-Pakistani authors, which will permit students to get acquainted with Indian literature. Provides insight into the experience of social and political events in the 20th century and the reaction of the government to the critical analysis and portrayal of these events. Taught in English. Formerly HINDI 3811. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3821 (3) The Mahabharata as Literature, Performance, Ideology

Offers an in-depth introduction to the Mahabharata, reputedly the world's longest epic and one of the foundational works of Indian civilization. Synopsis of the full text and selected excerpts will be read, including a translation of the spiritual classic, Bhagavad Gita. Recent scholarship on the poem's historical, ritual, and mythic contexts as well as on its performance traditions will also be examined. Formerly HINDI 3821.

College of Arts & Sciences | Asian Languages & Civilizations | Hindi

HIND-3831 (3) The Many Faces of Krishna in South Asia Literature and Culture

Using both textual and visual sources, the multiple facets of Krishna in Indian religious experience will be explored through poetry and prose, painting and sculpture, music, dance, and drama. Formerly HINDI 3831.

College of Arts & Sciences

Asian Languages & Civilizations

Hindi

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Courses

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HIST-1010 (3) Western Civilization 1: From Antiquity to the 16th Century

Surveys the development of Western civilization from its beginnings in the ancient near East through the Reformation of the 16th century. Also available through correspondence study. Credit not granted for this course and HIST 1030. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Methodo, Comparative, Global](#)

HIST-1015 (3) History of the United States to 1865

Surveys American history from first settlement until end of the Civil War. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-1018 (3) Introduction to Early Latin American History to 1810

Introduces students to the history of what is now called Latin America from about 1450 to the wars of independence in the nineteenth century. The course examines pertinent aspects of the societies and cultures of indigenous people, the history of European conquest, and the most salient features of the Spanish and Portuguese colonial empires in America. Students who have taken HIST 1038 may not receive credit for either HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-1020 (3) Western Civilization 2: 16th Century to the Present

Surveys political, economic, social, and intellectual developments in European history from the 16th century to the present. Similarities and contrasts between European states are underscored, as is Europe's changing role in world history. Also available through correspondence study. Credit not granted for this course and HIST 1040. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-1025 (3) History of the United States since 1865

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | History | US: Chronological Periods

HIST-1028 (3) Introduction to Modern Latin American History since 1800

Introduces students to the history of Latin America from independence to the present. The course investigates the social implications of various models of economic development, the opportunities and difficulties resulting from economic ties with wealthier countries, the consequences of ethnic, gender and class divisions, and the struggles of Latin Americans to construct equitable political systems. Students who have taken HIST 1038 may not receive credit for HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1051 (3) The World of the Ancient Greeks

Surveys the emergence, major accomplishments, failures, and decline of the world of the ancient Greeks, from Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.) Same as CLAS 1051. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-1061 (3) The Rise and Fall of Ancient Rome

Surveys the rise of ancient Rome in the eighth century B.C. to its "Fall" in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. Same as CLAS 1061. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-1113 (3) Introduction to British History to 1660

Deals with Roman, medieval, and early modern periods. Covers the demographic, economic, and social patterns, political and religious developments, and cultural changes that contributed to the formation of the English nation. Formerly HIST 2103. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-1123 (3) Introduction to British History Since 1660

Deals with the period from the 17th century to the present. Political, economic, social, and imperial developments that contributed to creation of the modern industrial and democratic state are the major issues covered. Formerly HIST 2123. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-1218 (3) Introduction to Sub-Saharan African History to 1800

Provides an introduction to African history, beginning with early man and ending in 1800. This course moves rapidly through civilizations as different as Ancient Egypt, Mali, Oyo, and the Cape Colony, touching on important developments and highlighting themes relevant to the history of Africa as a whole. These include migration, technology, environment, trade, gender, religion, slavery, and more. Formerly HIST 1208. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1228 (3) Introduction to Sub-Saharan African History Since 1800

Introduces students to the history of Sub-Saharan Africa from 1800 to the present. Major topics of study included the trans-Atlantic slave trade, African state-building, European colonialism, African responses to colonialism and issues facing independent African nations, ranging from debt to HIV/AIDS. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1308 (3) Introduction to Middle Eastern History

Interdisciplinary course that focuses on medieval and modern history of the Middle East (A.D. 600 to the present). Introduces the Islamic civilization of the Middle East and the historical evolution of the region from the traditional into the modern eras. Covers social patterns, economic life, and intellectual trends, as well as political development. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1518 (3) Introduction to South Asian History to 1757

Introduces the history of South Asia, providing a general acquaintance with the narratives and interpretations of ancient and medieval history of the Indian subcontinent from the rise of the Indus

Valley Civilization in 3500 BCE to the end of the Mughal Empire in 1757 CE. It is intended for students with little or no prior knowledge of the region. Credit not granted for this course and HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1528 (3) Introduction to South Asian History since 1757

Introduces the history of modern South Asia from 1757 to the present. Examines themes such as the nature of British colonial state formation in South Asia, social transformation under British rule, modes of anticolonial resistance movements, particularly Mahatma Gandhi's nonviolent civil disobedience movement, Muslim nationalism and the formation of Pakistan, and current political conflicts involving India, Pakistan and Afghanistan. Formerly HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1618 (3) Introduction to Chinese History to 1644

Introduces students to the history of China from Neolithic period to Ming period (1368-1644). Investigates the social patterns, gender relations, economic structure, intellectual trends, and political developments of China. Pays special attention to China's long-standing interaction with the rest of the world, which played a crucial role in the historical development of Chinese society. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1628 (3) Introduction to Modern Chinese History

Introduces students to modern Chinese history and culture, from the 17th century to the present. The course considers the pertinent aspects of modern China, focusing on its social patterns, economic structure, intellectual trends, and political developments. Similar to HIST 1608. Credit not granted for this course and HIST 1608. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1708 (3) Introduction to Japanese History

A broad interdisciplinary survey of the history of Japan from earliest times to the 20th century. Explores the development of political institutions, social structures, cultural and religious life, economic development, and foreign relations in an historical perspective. Approved for GT-H1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1800 (3) Introduction to Global History

Applies a broad perspective to the global past in order to illuminate how common historical patterns and processes as well as unique elements shaped the human experience. Using a thematic approach, this introductory course highlights cross-cultural interactions among societies, and, when relevant, how historical processes that began centuries ago still impact the contemporary

world. Topic will vary by semester. Prereq., any other 1000-level HIST course. Restricted to History BA and History additional majors only. Prerequisites: Restricted to History (HIST) BA or ADL majors only.

College of Arts & Sciences | History | Methods, Comparative, Global

HIST-1818 (3) Introduction to Jewish History, Bible to 1492

Study the origins of a group of people who call themselves, and whom others call, Jews. Focus on place, movement, power/powerlessness, gender, and the question of how to define Jews over time and place. Introduces Jews as a group of people bound together by a particular set of laws; looks at their dispersion and diversity; explores Jews' interactions with surrounding cultures and societies; introduces the basic library of Jews; sees how Jews relate to political power. Same as JWST 1818.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-1828 (3) Introduction to Jewish History since 1492

Surveys the major historical developments encountered by Jewish communities beginning with the Spanish Expulsion in 1492 up until the present day. We will study the various ways in which Jews across the modern world engaged with the emerging notions of nationality, equality, and citizenship, as well as with new ideologies such as liberalism, socialism, nationalism, imperialism and antisemitism. Same as JWST 1828. Formerly HIST 1108. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-2002 (3) Introduction to Central and East European Studies

Examines major themes in the history of Russia and East-Central Europe since the early modern era, introduces the literature and arts of the region, and presents current political, social, and economic issues. Same as CEES 2002. Approved for GT-SS3. Approved for arts and sciences core requirement: historical context.

College of Arts & Sciences | History | Europe: Modern

HIST-2015 (3) The History of Early America

Examines major themes in the development of colonial societies in North America from the 15th to the early 19th centuries. Explores intercultural relations, economic development, labor systems, religion and society, and family life. Specific course focus may vary. Approved for GT-HI1. Approved for arts and sciences core curriculum: United States context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences | History | US: Chronological Periods

HIST-2100 (3) Revolution in History

Examines the causes, character, and significance of political revolution in world history. Concentrating on one of the major revolutions of modern history, it examines why revolutions occur, who participates in revolution, and to what effect. Specific course focus varies. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences | History | Methods, Comparative, Global

HIST-2112 (3) Early Modern Societies (1450--1700)

Examines major themes in European Early Modern history. Issues to be explored include the Renaissance and the Reformation, popular culture, social history, and states and warfare. Specific course focus may vary. Similar to HIST 2113. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences | History | Europe: Modern

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Courses

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HIST-1010 (3) Western Civilization 1: From Antiquity to the 16th Century

Surveys the development of Western civilization from its beginnings in the ancient near East through the Reformation of the 16th century. Also available through correspondence study. Credit not granted for this course and HIST 1030. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[Methodo, Comparative, Global](#)

HIST-1020 (3) Western Civilization 2: 16th Century to the Present

Surveys political, economic, social, and intellectual developments in European history from the 16th century to the present. Similarities and contrasts between European states are underscored, as is Europe's changing role in world history. Also available through correspondence study. Credit not granted for this course and HIST 1040. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
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HIST-1800 (3) Introduction to Global History

Applies a broad perspective to the global past in order to illuminate how common historical patterns and processes as well as unique elements shaped the human experience. Using a thematic approach, this introductory course highlights cross-cultural interactions among societies, and, when relevant, how historical processes that began centuries ago still impact the contemporary world. Topic will vary by semester. Prereq., any other 1000-level HIST course. Restricted to History BA and History additional majors only. Prerequisites: Restricted to History (HIST) BA or ADL majors only.

[College of Arts & Sciences](#)
[History](#)
[Methodo, Comparative, Global](#)

HIST-2100 (3) Revolution in History

Examines the causes, character, and significance of political revolution in world history. Concentrating on one of the major revolutions of modern history, it examines why revolutions occur, who participates in revolution, and to what effect. Specific course focus varies. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-2170 (3) History of Christianity 1: To the Reformation

General introduction to the history of Christianity from its beginnings through the first period of the Protestant Reformation. Examines religious life and the church in relation to its social and cultural setting. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-2220 (3) History of War and Society

Focuses on war and society in a variety of global contexts. Explores the character, origins, and social, political, and intellectual impacts of war in contexts ranging from several centuries of international conflict to the experience of individual nations in specific wars. Topic varies in any given semester; contact Department of History for details. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3020 (3) Historical Thinking & Writing

Develops the research techniques and habits of mind required to succeed in the History major, honing students' critical, analytical, and synthetic skills while introducing them to History as a discipline and a way of understanding the world. Students practice the kinds of writing required in upper-division History classes. Topics will vary. Prereq., HIST 1080 and ARSC 1080, 1150, WRTG 1100, 1150 or 1250. Restricted to sophomore, junior and seniors. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3110 (3) Honors Seminar

Practical historiography for students who wish to write a senior honors thesis. Emphasizes choice of topic, critical methods, research, organization, argumentation, and writing. May be repeated up to 6 total credit hours. Prereqs., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-), honors standing, and instructor consent.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3120 (3) Honors Thesis

Prereq., HIST 3110 and instructor consent.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3800 (3) Seminar in Global History

Organized around themes that change year to year, this seminar allows students to explore and research processes, phenomena, and events of global significance in historical context. Stress will be upon subjects that span multiple world areas. Possible topics include: the international arms trade; slavery; health and disease; youth culture; women's rights; genocide. See department for current theme. May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Formerly HIST 3050. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3840 (1-3) Independent Study

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4020 (3) Capstone: Comparative History

Explores historical themes from a comparative perspective. As a culmination of the major, it encourages students to think more analytically about historical change. Consult the online Schedule Planner for specific topics. Team-taught by several faculty. May be repeated up to 6 total credit hours within the degree. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) History (HIST) majors (excludes minors).

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4030 (3) History of Slavery: Origins to Present

Examines slavery across the globe from its origins in ancient societies to the present. Includes the legal, social, economic, linguistic, and gender aspects of slavery, among other subjects. Restricted to sophomores/juniors/seniors. .

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4040 (3) The History of Space Exploration and Defense

This course examines the development and impact of American, Soviet/Russian, and European civilian and military space activities from the dawn of the space age to the space challenges of the 21st century. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4050 (3) The World War II Era

The World War II era witnessed transformations in the social, political, and economic orders across the globe. Traces the domestic and international developments, including military issues, that shaped the period in Europe, Asia, and the United States and assesses the war's legacy. Restricted to juniors/seniors.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4110 (3) Natives and Newcomers: Encounters in the Americas

Focuses on the first generations of interaction between natives and newcomers in the Americas, 1492-c.1650. Class will open with general section on colonialism and contact dynamics, then explore four contact areas (Caribbean, Valley of Mexico, St. Lawrence River Valley, Chesapeake) in depth. In-class discussion of primary sources a critical component of the course. Prereq., junior standing or successful completion of one lower-division history course.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4131 (3) The Origins of Christianity

Surveys the sources for the development of ancient Christianity from the ministry of Jesus Christ to the conversion of the emperor Constantine in the early fourth century. Through lectures and a close reading of primary source materials in translation, students will examine the social activity and theological development of early Christians in their Roman and Jewish context. Prereq., HIST 1010.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4190 (3) French Connections: Contemporary France and America in Historical Context

This faculty-led Global Seminar, based in Bordeaux, France provides an opportunity to compare French history and contemporary culture, economy, and culture to that of the United States. Lectures in Boulder and Bordeaux are supplemented by interactions with officials, scholars, business leaders, interest groups, and organizations in France. Offered through Study Abroad. IAFS 3500 and HIST 4190 are the same course. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4320 (3) The History of the Mediterranean, 1000-1600

Familiarizes students with the Mediterranean ecumene covering concepts such as the Renaissance, the Crusades, traders and travelers, religions and cities. Explores both conflicts (military, confessional) and exchanges (commercial, artistic, scientific) thus helping students think cross culturally, comparatively, and thematically. Emphasizes the Mediterranean contribution to historical developments of western Europe, the Middle East, and North Africa. Prereq., HIST 1010, 1061, 1308, 4061, 4071, 4081, 4091, or 4711. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4640 (3) Women, Gender and War

Study of how women experience war, and how the structure, practice and memory of war, and the rights and obligations of military service structure gender (masculinity and femininity) and are structured by the gender system. Prereq., HIST 1020 or 1025 or 1040 or 1045, or WMST 2000. Same as WMST 4640. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4820 (3) Human Rights: Historical Perspectives

Examines the history of modern ideas of human rights. Focuses on themes such as the universalism/cultural relativism debate, colonialism, nationalism, refugees and stateless peoples, the United Nations and humanitarianism, ethnic genocide in Rwanda, and human rights abuses by the Taliban regime in Afghanistan. Prereq., 6 hours of HIST credit. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4930 (1-3) History Internship

Matches selected students with supervised internships in professional archives research libraries, historical associations, and special projects. Interns apply their academic area specialty to their work in the field. Internships have a work and academic (reading and writing) component. May be repeated up to 6 total credit hours. Recommended prereq., completion of lower-level HIST course work (HIST 1015/1025, etc.). May be taken pass/fail only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) History (HIST) majors only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-5000 (3) Historical Methods: Introduction to the Professional Study of History

Introduces purposes, materials, and techniques of historical scholarship. Theory, practice, and criticism. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-5840 (1-3) Independent Study

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-6020 (3) Modern Empires: Readings in Imperial History

Introduces major topics and themes in imperial history. Reviews central theories of modern colonial empire, ranging from economic and political motivations for expansion, to the cultural and social impact of empire, to post-colonialism.

College of Arts & Sciences | History | Methodo, Comparative, Global

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HUMN-1010 (6) Introduction to Humanities 1

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Provides an analytical and comparative study of works in literature, music, and visual arts from Aegean to Baroque eras. Emphasizes structure, content, and style in specific examples. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-1020 (6) Introduction to Humanities 2

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Examines from Baroque to contemporary styles in literature, music, and visual arts. Emphasizes the cultural context in which art was created. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-1701 (3) Nature and Environment in German Literature and Thought

Critically examines titles in German literature and thought. Nature and environment are used to explore alienation, artistic inspiration, nihilism, exploitation, sexuality, rural versus urban, meaning of the earth, cultural renewal, identity and gender. This "Green" survey of German classics spans Romanticism's conception of nature as unconscious spirit to the politics and values of contemporary Germany's Green party. Same as GRMN 1701. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Humanities

HUMN-2000 (3) Methods and Approaches to the Humanities

Provides a transition from the introductory courses to the upper-division courses. Introduces the various technical methods and topics encountered in the department's comparative, interdisciplinary upper-division courses, including cultural studies, rhetoric, translation, hermeneutics, word/image studies, etc. Restricted to Humanities majors only. Prereq., HUMN 1010 or 1020.

Prerequisites: Restricted to Humanities (HUMN) majors only.

College of Arts & Sciences Humanities

HUMN-2100 (3) Arts, Culture and Media

Promotes a better understanding of fundamental aesthetic and cultural issues by exploring competing definitions of art and culture. Sharpens critical and analytical abilities by asking students to read and compare different theories about arts, culture, media, and identity, and then to apply and assess those theories in relation to a selection of visual and verbal texts from a range of cultural and linguistic traditions. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-2145 (3) African America in the Arts

Introduces interrelationships in the arts of African Americans and the African American contribution to American culture as a whole. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences Humanities

HUMN-2601 (3) Kafka and the Kafkaesque

Exposes the students to a wide selection of Kafka's literary output and aims to define the meaning of the Kafkaesque by looking not only for traces of Kafka's influence in the verbal and visual arts, but also for traces left in Kafka's own work by his precursors in the literary tradition. Same as GRMN 2601. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-3015 (3) Jung, Film, and Literature

The basic themes of C. G. Jung's archetypal psychology (shadow, anima/animus, character typology, and individuation) are studied and applied as tools of critical analysis to selected films and literary texts of the modern period. Instructor consent required. Same as FILM 3022.

College of Arts & Sciences Humanities

HUMN-3092 (3) Studies in Humanities

Students should check with the department for specific semester offerings. May be repeated up to 12 total credit hours, provided the specific offerings vary. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Humanities

HUMN-3093 (3) Topics in Humanities

Students should check with the department for specific semester offerings. May be repeated up to 12 total credit hours, provided the specific offerings vary. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Humanities

HUMN-3104 (3) Film Criticism and Theory

Surveys the range and function of film criticism, introduces major positions and concepts of film theory, and focuses on students' abilities to write about film. Prereq., FILM 1502. Same as FILM 3104.

College of Arts & Sciences | Humanities

HUMN-3210 (3) Narrative

Explores the nature of sacred and secular narrative in literature, film, and the visual arts. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 4013.

College of Arts & Sciences | Humanities

HUMN-3211 (3) The Craft of Mystery

Explores examples of and theories about the formation and growth of the genre of detective fiction, especially in the late 19th and early 20th centuries. Explores the social conditions of the times in which the texts were written and the possible resulting influences on style. Compares the texts and theories to examples from other genres and time periods. Prereqs., HUMN 2000 or junior/senior standing.

College of Arts & Sciences | Humanities

HUMN-3212 (3) Shipwrecks, Mutinies, and Other Catastrophes at Sea

Explores the theatrical analogy that frames our understanding of catastrophes at sea and their literary and visual representation, paying particular attention to issues of gender, race, and sexuality, which are intentionally banned from such representations, but turn out to be their secret focus. Prereq., HUMN 2000 or junior/senior standing.

College of Arts & Sciences | Humanities

HUMN-3220 (3) Epic

Comparative and interdisciplinary study of the figure of the hero and the concept of fate in the epic tradition and the modern novel. Explores literary, religious, philosophical, and ethical issues. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 4023.

College of Arts & Sciences Humanities

HUMN-3230 (3) Comedy

Offers an interdisciplinary approach to comedy, examining art, music, literature, and film from different periods. Comic theory is interlaced with the study of particular works. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 3033.

College of Arts & Sciences Humanities

HUMN-3240 (3) Tragedy

Studies some of the great tragic works of art, music, and literature from the Greeks to the 20th century. Tragic theory is invoked as an aid to interpretation. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 3043. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-3250 (3) Dramatic Arts

Interdisciplinary course that examines and compares various forms of the dramatization of narrative: written texts, audio, video, film, and live performances. Compares different versions of the same narrative or theme, especially if different media are used and different time periods are involved. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 4133.

College of Arts & Sciences Humanities

HUMN-3290 (3) Foundations of Disability Studies

Introduces students to the interdisciplinary field of disability studies by investigating key concepts in disability theory, disability history and culture, media representations of people with disabilities, and pertinent bioethical issues.

College of Arts & Sciences Humanities

HUMN-3321 (3) Culture and Literature of Ancient China

Focuses on the religious, cultural, philosophical, and literary aspects of ancient Chinese civilization (1500 B.C.-A.D. 200). Special attention is paid to foundational works that influenced later developments in Chinese culture. All readings are in English. Recommended prereq., EALC 1011 or CHIN 1051. Same as CHIN 3321.

College of Arts & Sciences Humanities

HUMN-3341 (3) Literature and Popular Culture in Modern China

Surveys 20th century Chinese literature and popular culture against the historical background of rebellion, revolution, and reform. Emphasizes close and critical reading skills and an understanding of how aesthetic texts reflect and critically engage with historical and cultural experiences. Assignments include novels, essays, short stories, poems, plays, songs, films, and scholarly articles. Taught in English. Recommended prereq., CHIN 1021 or 1051. Same as CLAS 3341. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Humanities

HUMN-3505 (3) The Enlightenment: Tolerance and Emancipation

Examines Enlightenment notions of reason, humanity, and social progress. Topics include 18th century views on government, science, education, religion, slavery, and gender roles. Taught in English. Same as GRMN 3505. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Humanities

HUMN-3550 (3) Imag(in)ing Meaning

Explores the role of imagination in constructing narratives of meaning through close readings of various genres (fiction, poetry, manifesto, essay), various modes of artistic expression (art, film, photography, documentary), and essays of critical theory. Prereq., HUMN 2000 or junior/senior standing.

College of Arts & Sciences | Humanities

HUMN-3640 (3) Modernisms: Art and Theory from 1900 to 1960

Offers an introduction to Modernism in various media, emphasizing in particular the historical development of the visual arts from German Expressionism and Cubism to Neo-Dada and Pop Art. Readings in literature will include Proust, Beckett, Blanchot, and poets associated with various art movements. Theoretical readings range from Saussure and Freud to Adorno and Jameson. Recommend prereq., HUMN 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Humanities

HUMN-3660 (3) The Postmodern

Analyzes the cultural and critical practices as well as the thought that defines the postmodern period at the end of twentieth century. Prereq., HUMN 2000 or junior/senior standing. HUMN 3660 and FILM 3660 are the same course. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Humanities

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GRMN-1010 (4) Beginning German 1

For students with no previous training in German. Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

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HEBR-1010 (4) Beginning Hebrew 1

First semester Hebrew is a beginning level course designed for students who have little or no prior knowledge of Hebrew. Begins with learning the Hebrew alphabet and immediately starts developing rudimentary Hebrew conversational, reading and writing skills. By the end of the semester students are expected to have attained basic understanding and expressive abilities in Hebrew.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Hebrew](#)

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HIND-1010 (5) Beginning Hindi 1

Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading, and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local South Asian cultural events. Credit not granted for this course and ASIA 1420. Formerly HNDI 1010.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Hindi](#)

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HIST-1010 (3) Western Civilization 1: From Antiquity to the 16th Century

Surveys the development of Western civilization from its beginnings in the ancient near East through the Reformation of the 16th century. Also available through correspondence study. Credit not granted for this course and HIST 1030. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Methodo, Comparative, Global](#)

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HUMN-1010 (6) Introduction to Humanities 1

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Provides an analytical and comparative study of works in literature, music, and visual arts from Aegean to Baroque eras. Emphasizes structure, content, and style in specific examples. Approved for arts and sciences core curriculum: literature and the arts.

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INDO-1010 (5) Beginning Indonesian 1

Provides a thorough introduction to the modern Indonesian language, emphasizing speaking, listening, reading and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Indonesian](#)

INDO-1011 (3) Introduction to Indonesian Civilization

Provides an overview of the past and present of Indonesia, the people, and their cultures. Discussions with guest speakers, and on films, music, and images, will allow them to get acquainted with important issues and values in today's Indonesia. A closer look to the five major islands in the archipelago will introduce them to the diversity of this nation's 234,693,997 people. Taught in English.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Indonesian](#)

INDO-1020 (5) Beginning Indonesian 2

Continuation of INDO1010. Provides a thorough introduction to the modern Indonesian language, emphasizing the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local Southeast Asian events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq., INDO 1010 (min. grade C).

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Indonesian](#)

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| College of Arts & Sciences | Asian Languages & Civilizations | Indonesian |
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INDO-2010 (4) Intermediate Indonesian 1

Aims to increase the students' proficiency in listening, speaking, reading, and writing in modern Indonesian. Students will use only Indonesian in class. Evaluation based on classroom performance, homework, tests, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereqs., INDO 1010 and 1020 (min. grade C). Meets MAPS requirement for foreign language.

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INDO-2020 (4) Intermediate Indonesian 2

Continuation of INDO 2010. Aims to increase the students' proficiency in listening, speaking, reading, and writing in modern Indonesian. Students will use only Indonesian in class. Evaluation based on classroom performance, homework, tests, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq., INDO 2010 (min. grade of C).

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| College of Arts & Sciences | Asian Languages & Civilizations | Indonesian |
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INDO-3010 (3) Advanced Indonesian 1

Develops students' proficiency in language skills in modern Indonesian. Emphasis is on students' command in leading discussion and writing in formal Indonesian. Students read classic and contemporary authentic materials. Evaluation based on classroom performance, essays, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Fluent Indonesian or Malay speakers who wish to learn more about Indonesian cultures should contact the instructor for placement. Prereq., INDO 2020 (min. grade C).

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INDO-3020 (3) Advanced Indonesian 2

Continuation of Indo 3010. Develops students' proficiency in language skills in modern Indonesian. Emphasis is on students' ability to lead discussion and write in formal Indonesian. Students read classic and contemporary authentic materials. Evaluation based on classroom performance, essays, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Fluent Indonesian or Malay speakers who wish to learn more about Indonesian cultures should contact the instructor for placement. Prereq., INDO 3010 (min. grade C).

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ITAL-1010 (5) Beginning Italian 1.

The four skills of listening, speaking, reading, and writing are progressively developed in a predominantly oral presentation. Grammatical concepts are explained and practiced through dialogues, written exercises, and conversations. The cultural focus is on the personal world and life of students.

[College of Arts & Sciences](#)
[French & Italian](#)
[Italian](#)

ITAL-1020 (5) Beginning Italian 2

Continuation of ITAL 1010, with more difficult grammatical concepts explored. The cultural focus shifts to social and civic areas. Prereq., ITAL 1010 (min grade C-).

[College of Arts & Sciences](#)
[French & Italian](#)
[Italian](#)

ITAL-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as FREN 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[French & Italian](#)
[Italian](#)

ITAL-1500 (3) That's Amore: Introduction to Italian Culture

Introduces students to representations of Italian society that have persisted through the ages. The course readings allow students to better understand how certain stereotypes about Italian society (e.g., Latin lover, Mafia) were born and persist in the present. Taught in English. Approved for GT-AH2. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences French & Italian Italian

ITAL-1600 (3) Strategies of Fear: Introduction to Italian Fantastic Literature

Traces the development of the fantastic theme in Italian Literature from its origins (late nineteenth century) to contemporary times. Analyzes the modes of reception and appropriation of non-Italian gothic and fantastic narrative traditions through which Italian writers have subverted the national literary model proposed by realist narrative. Approved for arts and sciences core curriculum: literature and the arts. Taught in English.

College of Arts & Sciences French & Italian Italian

ITAL-2110 (3) Intermediate Italian Reading, Grammar, and Composition 1

Enhances the skills learned in the first-year course and develops greater fluency in understanding and speaking. More emphasis is placed on reading and writing through the use of activities featuring cultural themes that present a realistic portrait of contemporary Italy. Taught in Italian. Prereq., ITAL 1020 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences French & Italian Italian

ITAL-2120 (3) Intermediate Italian Reading, Grammar, and Composition 2

Continuation of ITAL 2110. Some reading in Italian literature and culture with considerable practice in writing and speaking Italian. Fulfills the Graduate School language requirement for the Phd. Prereq., ITAL 2110 (min grade C-) or equivalent.

College of Arts & Sciences French & Italian Italian

ITAL-2130 (3) Introduction to Literary Analysis.

Increases student's ability to read and analyze literary texts by improving vocabulary and terminology. Students read short stories, essays, short plays, and poems to acquire critical skills and improve expression of opinions and arguments in Italian. Taught in Italian. Prereq or coreq., ITAL 2120 (min grade C-) or instructor consent required.

College of Arts & Sciences French & Italian Italian

ITAL-3015 (3) Advanced Composition 1

Teaches students to write in Italian in a variety of genres, focusing on the creative aspects of writing. Exercises and themes are drawn primarily from current events and culture (i.e., blogging,

journaling, essays and films), but also allows students to develop their critical skills in other areas. Similar to ITAL 3010. Students may not receive credit for this course and ITAL 3010. Prereq., ITAL 2120 (min. grade C-) or instructor consent required.

College of Arts & Sciences French & Italian Italian

ITAL-3025 (3) Advanced Composition 2: Introduction to Literary Writing

Introduces students to complex forms of writing within Italian studies. Focuses on the analysis of literary genres (e.g., autobiography, essays, short stories) through a step-by-step process that allows students to craft advanced arguments in Italian. Studies will read Italian literary texts and write and revise in workshop format (e.g., peer review, collaborative assignments). Similar to ITAL 3020. Students may not receive credit for this course and ITAL 3020. Prereq., ITAL 3015 (min grade C-) or instructor consent required. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences French & Italian Italian

ITAL-3030 (3) Storia dell'arte: Advanced Composition/Conversation 3

Improves vocabulary and fluency in spoken Italian, and competence and confidence in correct and more sophisticated written Italian through the study of the history of Italian art. Exercises and themes focus on Italian Classical, Medieval, Renaissance, and Modern Art. Prereq., ITAL 2130 or 3010 (min grade C-). Instructor consent is required.

College of Arts & Sciences French & Italian Italian

ITAL-3040 (3) Italian Conversation Through Cinema

Taught in Italian, the course covers various topics of Italian Cinema from WWII to the present. Focus is on periods, genres, themes, and auteur/directors. Emphasis on review of language structures previously learned and acquisition of new vocabulary to enable students to discuss different aspects of Italian culture, in Italian. Prereq., ITAL 2120 (min grade C-) or equivalent. Instructor consent is required.

College of Arts & Sciences French & Italian Italian

ITAL-3140 (3) Readings in Italian Literature-20th Century

Covers a selected reading of major texts, prose, and poetry of 20th century literature. Emphasizes critical reading and analysis of modern and contemporary Italian literature in its literary and historical context. Taught in Italian. Prereq., ITAL 2130 (min grade of C-), or instructor consent.

College of Arts & Sciences French & Italian Italian

ITAL-3150 (3) Readings in Italian Literature-19th Century

Introduces students to 19th century literary history through a selected reading of major texts, prose, and poetry. Emphasizes critical reading and analysis of Italian literature in its literary and historical context. Taught in Italian. Prereq., ITAL 2130 (min grade C-), or instructor consent.

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-3160 (3) Readings in Italian Literature---Medieval and Renaissance

Covers a selected reading of major texts, prose, and poetry of Medieval and Renaissance literature. Emphasizes critical reading and analysis of texts in their literary and historical context. Taught in Italian. Prereq., ITAL 2130 (min grade C-) or instructor consent required.

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-4010 (3) Problems in Translation, Advanced Grammar, and Stylistics 1

Emphasizes practice in translating varying types of prose from Italian into English and English into Italian. Prereq., ITAL 2130 or 3010 (min grade C-).

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-4030 (3) Contemporary Italian Culture, Politics, and the Media.

Serves as an introduction to the study of the effect that politics and the media have in shaping Italian culture. Makes use of the World Wide Web for instruction. Taught in Italian. Familiarity with Internet helpful. Prereq., ITAL 2130 or 3010 (min grade C-) or instructor consent.

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-4040 (3) Business Italian Style

Provides an introduction to the Italian way of conducting business, with a close view on the company and its world through learning marketing and producing a real company project for the market. Analyzes topics of international marketing and trade using Italian and American economics websites. Focuses on building cross-cultural bridges between the U.S. and Italy to have smoother business relationships and enable students to participate more easily in joint international working teams. Prereq., ITAL 3010 (min grade C-) or instructor consent required.

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-4140 (3) The Age of Dante: Readings from The Divine Comedy

Focuses on close reading of Dante's poetry with emphasis on the intellectual, religious, political, and scientific background of the medieval world. Taught in English. Prereq., junior standing or instructor consent. Same as HUMN 4140. Credit not granted for this course and ITAL 4145 or 4147. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | French & Italian | Italian |
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ITAL-4145 (3) The Age of Dante in Italian

Focuses on close readings of Dante's poetry with emphasis on the intellectual, religious, political, and scientific background of the medieval world. Taught in Italian. Prereq., ITAL 2130. Credit not granted for this course and ITAL 4140, HUMN 4140, or ITAL 4147. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian Italian

ITAL-4147 (3) Visualizing Dante's Inferno: A Global Seminar in Florence Italy

Focuses on close reading of Dante's Inferno. Examines the specific sites and art in Florence and nearby cities that Dante references in the Inferno, as well as visual representations of Hell created both before and after Dante's poem. Taught in English. Offered through the CU Study Abroad Program. Credit not granted for this course and HUMN/ITAL 4140 or ITAL 4145. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian Italian

ITAL-4150 (3) The Decameron and the Age of Realism

Analyzes the rise of realism in the 13th and 14th century Italian literature and parallel manifestations in the visual arts. Focuses on Boccaccio's Decameron and contemporary realistic prose and poetry with emphasis on gender issues and medieval cultural diversity. Taught in English. Prereq., junior standing or instructor consent. Same as HUMN 4150. Approved for arts and sciences core curriculum: literature and the arts or human diversity.

College of Arts & Sciences French & Italian Italian

ITAL-4160 (3-5) Italian Literature Special Topics

Topics vary each semester. Consult the online Schedule Planner for specific topics. May be repeated up to 8 total credit hours for different topics.

College of Arts & Sciences French & Italian Italian

ITAL-4170 (3) Italian Literature Special Topics

Topics vary each semester. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours on different topics.

College of Arts & Sciences French & Italian Italian

ITAL-4200 (3) Topics in Italian Culture and Civilization from the Origins through the Renaissance

Taught in English. Topics vary. May be repeated up to 6 total credit hours on different topics.

College of Arts & Sciences French & Italian Italian

College of Arts & Sciences | French & Italian | Italian

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Courses

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Number

JPNS-1010 (5) Beginning Japanese 1

Provides a thorough introduction to modern Japanese, emphasizing speaking, listening, reading, and writing in a cultural context.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Japanese](#)

JPNS-1020 (5) Beginning Japanese 2

Continuation of JPNS 1010. Prereq., JPNS 1010 (min grade C) or instructor consent.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Japanese](#)

JPNS-2110 (5) Intermediate Japanese 1

Continued study of oral and written modern Japanese in a cultural context. Prereq., JPNS 1020 or equivalent (min grade C) or instructor consent. Meets MAPS requirement for foreign language.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Japanese](#)

JPNS-2120 (5) Intermediate Japanese 2

Continuation of JPNS 2110. Prereq., JPNS 2110 (min grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Japanese |
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JPNS-3110 (5) Advanced Japanese 1

Enhances student competence and performance in Japanese language in a holistic and integrative manner. Prereq., JPNS 2120 (min grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Japanese |
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JPNS-3120 (5) Advanced Japanese 2

Continuation of JPNS 3110. Enhances student competence and performance in Japanese language in a holistic and integrative manner. Prereq., JPNS 3110 (min grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Japanese |
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JPNS-3200 (3) Adv Wrtg Topics on Chinese & Japanese Literature and Civilization

Provides an introduction to the academic study of Chinese and Japanese literature and culture with a focus on writing skills in English through a survey of standard academic writing conventions. Review and assessment of selected textual materials, class presentation, critique, and revision. Recommended for Chinese and Japanese majors and minors. Approved for arts and sciences core curriculum: written communication. CHIN 3200 and JPNS 3200 are the same course.

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| College of Arts & Sciences | Asian Languages & Civilizations | Japanese |
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JPNS-3331 (3) Business Japanese

Designed to teach Japanese with emphasis on using Japanese for professional purposes. The course aims to foster the skills and the knowledge of effective cross-cultural and interpersonal communication in Japanese and to develop intercultural competence in business contexts. Prereq., JPNS 2120 (min. grade C) or instructor consent. Recommended prereq., JPNS 3110 (min. grade C).

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| College of Arts & Sciences | Asian Languages & Civilizations | Japanese |
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JPNS-4030 (3) Japanese Syntax

Deals with syntactic phenomena from five areas of Japanese grammar that cause the most difficulty for learners. Their characteristics are explored in forms and discursal functions that go beyond the explanations in basic, prescriptive grammars of Japanese. Prereq., JPNS 3120 or 4120, or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Japanese |
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JPNS-4070 (3) Second Language Acquisition of Japanese

Studies language acquisition theories and research on Japanese as a second language (JSL). Covers the issues in JSL from linguistic, cognitive, and sociolinguistic perspectives: orthography, grammar, phonology, and vocabulary in the contexts of teaching and learning JSL. Prereq., instructor consent. Same as JPNS 5070.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-4080 (3) Kanji in Japanese Orthography

Covers the issues in kanji research from historical, sociolinguistic, linguistic, cognitive perspective and vocabulary acquisition theories in the context of teaching and learning the Japanese language. Same as JPNS 5080.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-4110 (3) Advanced Readings in Modern Japanese 1

Surveys a variety of material written in modern Japanese, including texts from literature, the social sciences, religion, and cultural history. Emphasizes content and style. Texts and selections vary from year to year. Prereq. JPNS 3120 (min grade C) or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-4120 (3) Advanced Readings in Modern Japanese 2

Continuation of JPNS 4110. Texts and selections vary from year to year. Prereq., JPNS 4110 (min grade C) or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-4210 (3) Contemporary Japanese 1: Current Issues

Offers intensive review of Japanese language skills beyond the first eight semesters, and cultivates further proficiency. Readings will be selected from a wide range of contemporary writings that reflect and represent issues in Japanese as well as global communities. The course emphasizes all skills: reading, listening, writing, speaking, and translation. Instructional technology is extensively integrated into the curriculum. Prereq., JPNS 4120 or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-4220 (3) Contemporary Japanese 2: Current Issues

Continues developing Japanese language skills beyond the first eight semesters. Cultivates further proficiency at an advanced and superior level. Readings are selected from a wide range of contemporary writings that reflect and represent issues in Japanese as well as global communities. Emphasizes all skills: reading, listening, writing, speaking, and translation. Instructional technology is extensively integrated into the curriculum. Prereq., JPNS 4210 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4300 (3) Open Topics: Readings in Japanese

Examines selected texts on a particular topic taught by regular or visiting faculty. Topics change each term. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4310 (3) Classical Japanese 1

Introduces reference tools for reading classical Japanese, and grammar, vocabulary, and use of scripts in premodern Japanese, focusing on the 10th century Taketori Monogatari and the 13th century Hojoki. Prereq., JPNS 3110. Recommended prereqs., JPNS 3120, 3811, 3821.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4320 (3) Classical Japanese 2

Continuation of JPNS 4310. Surveys changes in Japanese literary language from the Nara (eighth century) to Meiji (late 19th century) periods. Attention given to changes in grammar, vocabulary, and use of scripts in premodern Japanese. Introduces representative works of classical Japanese literature of all periods. Prereq., JPNS 4310.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4900 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4950 (3) Honors Thesis

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4980 (1) Practical Issues in Japanese Language Pedagogy

Focuses on practical issues in Japanese language pedagogy for students who will serve as teaching assistants in Japanese language class. Examines the connection between theory and practice as well as practical methods for teaching Japanese. Discusses how to teach Japanese as a second language in a communicative approach and how to assess student language learning. Prereq., JPNS 4120 or equivalent. JPNS 4980 and 5980 are the same course.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-5010 (3) Bibliography and Research Methods

Introduces research materials on Japan in Japanese and Western languages, including bibliographic tools, style sheets, and library resources. Overview of secondary sources and publication outlets/methods of disseminating research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-5020 (3) Methods of Teaching Japanese

Surveys pedagogical theory and methods for the teaching of Japanese as a second language, including issues of presentation, interaction, and evaluation. Prereq., graduate standing or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-5050 (3) Japanese Sociolinguistics

Surveys past achievements and current research concerns of Japanese sociolinguists in areas such as speech varieties, language behavior and attitude, and linguistic contact and change, as well as their guiding theories and central fieldwork methods. Prereq., graduate standing or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

JPNS-5070 (3) Second Language Acquisition of Japanese

Prereq., graduate standing or instructor consent. Same as JPNS 4070. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

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Courses

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KREN-1010 (5) First-Year (Beginning) Korean 1

Trains students in elementary conversational and writing skills and provides grounding in the basic idiomatic and syntactical features of Korean, through lectures, drills, and language laboratory sessions based on set dialogues and readings.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Korean](#)

KREN-1011 (3) Introduction to Korean Civilization

Introduces the history of Korean culture within the context of political, social, and economic history. Covers the old Choson dynasty to present day Korea. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Korean](#)

KREN-1020 (5) First-Year (Beginning) Korean 2

Continuation of KREN 1010. Prereq., KREN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Korean](#)

KREN-2110 (5) Second-Year (Intermediate) Korean 1

Extends the conversational and written skills acquired at the elementary level. Although emphasis remains on spoken Korean, readings are increased, elementary writing skills are introduced gradually, and some Sino Korean characters are taught. Prereq., KREN 1020 (min. grade C) or instructor consent. Meets MAPS requirement for foreign language.

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| College of Arts & Sciences | Asian Languages & Civilizations | Korean |
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KREN-2120 (5) Second-Year (Intermediate) Korean 2

Continuation of KREN 2110. Prereq., KREN 2110 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Korean |
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KREN-2441 (3) Film and Korean Culture

Introduces Korean/South Korean cinema from colonial period to the contemporary including old Korean black and white films, the earliest talkie films and contemporary art films. Considers cinema as a window to see the tumultuous and diverse culture of modern Korea. Taught in English. No prior knowledge of Korea, Korean film or film art is required.

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| College of Arts & Sciences | Asian Languages & Civilizations | Korean |
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KREN-3110 (5) Advanced Korean 1

Promotes an advanced level of speaking, reading, and writing. Focuses on contemporary business Korean language as reflected in various Korean media such as newspapers, magazines, and television. The goal is to acquire Korean language skills at a level that allows students to conduct business activities. Prereq., KREN 2120 (min. grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Korean |
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KREN-3120 (5) Advanced Korean 2

This second semester of Korean offers advanced level (2) speaking and writing. Focuses on understanding contemporary Korean languages as reflected in various communication media, such as print, TV, and films to help students understand Korean in a variety of contexts. Prereq., KREN 3110 (min grade C) or instructor consent.

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| College of Arts & Sciences | Asian Languages & Civilizations | Korean |
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KREN-3841 (3) Modern Korean Literature in English Translation

Surveys masterpieces of modern Korean literature written by significant Korean/Korean American authors in English. Provides various literary and theoretical frameworks to understand Korean literature within the context of Asian global culture. Covers from colonial period to the present. No prior knowledge of Korea or Korean literature is required.

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| College of Arts & Sciences | Asian Languages & Civilizations | Korean |
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KREN-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Asian Languages & Civilizations | Korean

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INDO-1010 (5) Beginning Indonesian 1

Provides a thorough introduction to the modern Indonesian language, emphasizing speaking, listening, reading and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Indonesian](#)

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ITAL-1010 (5) Beginning Italian 1.

The four skills of listening, speaking, reading, and writing are progressively developed in a predominantly oral presentation. Grammatical concepts are explained and practiced through dialogues, written exercises, and conversations. The cultural focus is on the personal world and life of students.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

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JPNS-1010 (5) Beginning Japanese 1

Provides a thorough introduction to modern Japanese, emphasizing speaking, listening, reading, and writing in a cultural context.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

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KREN-1010 (5) First-Year (Beginning) Korean 1

Trains students in elementary conversational and writing skills and provides grounding in the basic idiomatic and syntactical features of Korean, through lectures, drills, and language laboratory sessions based on set dialogues and readings.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Korean](#)

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NORW-1010 (4) Beginning Norwegian 1

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Norwegian](#)

NORW-1020 (4) Beginning Norwegian 2

Prereq., NORW 1010 with a grade of C- or better.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Norwegian](#)

NORW-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Norwegian](#)

NORW-2110 (4) Second-Year Norwegian Reading and Conversation 1

Prereq., NORW 1020 with a grade of C- or better. Fulfills the arts and sciences language requirement for the BA and BFA degrees. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian

NORW-2120 (4) Second-Year Norwegian Reading and Conversation 2

Continuation of NORW 2110, with focus on Norwegian culture and society. Small group work and class discussions. Prereq., NORW 2110 with a grade of C- or better.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian

SCAN-3020 (3) Advanced Readings in Scandinavian

Develops the type of advanced reading knowledge of the four closely related Scandinavian languages (Swedish, Danish, and the two Norwegian standards) that will prepare students for their senior thesis, and for possible graduate work. Readings will help students see relationships and connections operating across national and linguistic borders within the Nordic region. Prereqs., NORW/SWED 2120 and NORW/SWED 3900 for 3 credits.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian

NORW-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Norwegian

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NORW-1010 (4) Beginning Norwegian 1

[College of Arts & Sciences](#) | [Germanic & Slavic Languages & Literature](#) | [Norwegian](#)

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RUSS-1010 (4) Beginning Russian 1

For students with no previous training in Russian. Credit not granted for this course and RUSS 1050.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Russian](#)

RUSS-1020 (4) Beginning Russian 2

Continuation of RUSS 1010. Prereq., RUSS 1010 (min grade of C-). Credit not granted for this course and RUSS 1050.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Russian](#)

RUSS-1050 (5) Intensive Beginning Russian

Covers same material as RUSS 1010 and RUSS 1020 combined in one course. Focuses on acquiring basic grammar (all cases for nouns, adjectives and possessives, verb conjugations, in all three tenses), and ability to understand and speak basic everyday Russian. Develops basic reading and writing skills and provides exposure to the fundamentals of the Russian culture. Credit not granted for this course and RUSS 1010 or 1020.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Russian](#)

RUSS-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-2010 (4) Second-Year Russian 1

Review and continuation of basic skills learned in the first year: reading, writing, speaking, and oral comprehension. Prereq., RUSS 1020 or 1050 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences language requirement.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-2020 (4) Second-Year Russian 2

Continuation of RUSS 2010. Prereq., RUSS 2010 (min grade of C-).

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3000 (3) Advanced Conversation

Enables students to speak and understand contemporary Russian. Discussion topics and source materials vary. May be repeated up to 6 total credit hours. Prereq., RUSS 2010.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3010 (3) Third-Year Russian 1

Review of Russian grammar coordinated with reading, speaking, writing, and understanding modern Russian. Uses some texts from modern Russian literature. Prereq., RUSS 2020.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3020 (3) Third-Year Russian 2

Continuation of RUSS 3010. Prereq., RUSS 3010.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3050 (3) Business Russian

Studies general commercial practices, vocabulary, and terminology applied in various business transactions. Emphasizes oral and written communication and correspondence. Prereq., RUSS 2020 or instructor consent.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3060 (3) Advanced Russian for Heritage Speakers (Part 1)

Enhances heritage student competence and performance in Russian language. The course offers intensive review of Russian grammar and focuses on developing advanced reading, writing and translation skills. Readings are selected from a wide range of contemporary writings that reflect current issues in Russia. Credit not granted for this course and RUSS 4010.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-3930 (1-6) Russian Internship

Provides an academically supervised opportunity for upper-division students to earn credit while working for public or private organizations. Students apply skills and knowledge earned in the major, and supplement their work experience through directed readings and assignments. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Russian (RUSS) majors only.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-4010 (3) Advanced Conversation and Composition 1

Prereq., RUSS 3020. Credit not granted for this course and RUSS 3060.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-4020 (3) Advanced Conversation and Composition 2

Prereq., RUSS 4010. Credit not granted for this course and RUSS 4060.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian |
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RUSS-4060 (3) Advanced Russian for Heritage Speakers (Part 2)

Enhances heritage student competence and performance in Russian language. The course offers intensive review of Russian grammar and focuses on developing advanced reading, writing and translation skills. Readings are selected from a wide range of contemporary writings that reflect current issues in Russia. Recommended prereq., RUSS 3060, 4010 or equivalent. Credit not granted for this course and RUSS 4020.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

RUSS-4230 (3) Russian Cultural Idioms

Focuses on the critical analysis of the Russian cultural discourse through Russian idioms. Taught in Russian. Prereq., RUSS 2020 or instructor consent. Same as GSSL 5230.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

RUSS-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Russian

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Courses

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SLHS-1010 (3) Disabilities in Contemporary American Society

Addresses the issue that 50 percent of all individuals experience disability in their lifetime. Introduces students to the social, cultural, psychological, economic, political, legal, and health-care issues related to society and individuals with disabilities. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-2000 (3) Introduction to Communication Disorders

Surveys communication disorders, including hearing impairments, learning disabilities, and speech-language disorders, as well as an introduction to basic speech and hearing science.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-2010 (3) Science of Human Communication

Discusses how human communication (the process by which a thought is transmitted from the brain of a speaker to the brain of a listener) involves a complex interaction of acoustics, anatomy, physiology, neurobiology, and psychology. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-2305 (4) American Sign Language 1

Introduces basic sign vocabulary, grammatical structures of ASL, and the culture of deaf people. Classes are taught using ASL without the use of spoken English.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | American Sign Language |
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SLHS-2315 (4) American Sign Language 2

Develops more complex vocabulary and grammatical structures, and an understanding of deaf culture. Classes are taught using ASL without the use of spoken English. Prereq., SLHS 2305 or equivalent.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | American Sign Language |
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SLHS-2325 (4) American Sign Language 3

Continuation of SLHS 2315. Covers ASL literature, advanced grammatical structures, idiomatic expressions, and deaf culture. Prereq., SLHS 2315 or equivalent. Meets MAPS and core requirement for a foreign language.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | American Sign Language |
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SLHS-3006 (3) Phonetics

Focuses on production of speech sounds, transcribing speech using the International Phonetic Alphabet, analyzing the acoustic properties of speech sounds, understanding how speech sounds vary depending on the context. Provides a foundation for understanding normal and atypical speech development, atypical speech problems and patterns, regional and foreign accents, and speech recognition by computers. Prereq., LING 2000.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci |
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SLHS-3106 (3) Hearing Science

Focuses on the three main aspects of the hearing process: Sounds in the environment (physical acoustics), sounds encoded within the auditory system (physiological acoustics), and perception of sound (psychological acoustics). Prereq., SLHS 2010.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci |
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SLHS-3116 (3) Speech Science

Provides a basic understanding of the structural organization (anatomy), function (physiology), and neural controls of the structures used to produce speech, swallowing, respiration, and related behaviors in humans. Prereq., SLHS 2010. Prereq. or Coreq., SLHS 3106.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci |
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SLHS-4000 (3) Multicultural Aspects of Communication Differences and Disorders

Examines perceptions and attitudes regarding differences in communication as a function of cultural-linguistic diversity. Discusses implications of differing verbal and nonverbal communication styles of various cultural groups in terms of professional responsibilities. Prereq., upper-division standing and a minimum of 60 credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-4100 (1-3) Special Topics in Speech, Language, and Hearing Sciences

Studies selected topics in speech, language, hearing sciences, communication disorders, and other professional issues.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-4502 (3) Language Disorders: Child and Adult

Language disorders can result from problems with cognitive, linguistic, and/or discourse processing. The theoretical framework of language dysfunction is addressed while drawing upon real clinical examples of language disorders that have been observed in children and adults. Coreq., SLHS 4560.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology |
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SLHS-4512 (3) Speech Disorders: Voice, Cleft Palate, Motor Disorders, Stuttering

Emphasizes stuttering, clefting, voice disorders, and motor disorders. Discusses research, evaluation, and treatment pertaining to each of these four disorder areas. Prereq., SLHS 2010.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology |
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SLHS-4560 (3) Language Development

Covers the development of language in childhood and into adult life, emphasizing the role of environment and biological endowment in learning to communicate with words, sentences, and narratives. Restricted to Speech, Language, and Hearing Sciences majors only. Same as LING 4560, PSYC 4560. Prerequisites: Restricted to Speech, Language, and Hearing Sciences majors only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-4704 (3) Audiological Evaluation

Studies basic principles and techniques of hearing evaluation, including pure-tone, speech, immittance, and advanced audiometry; hearing conservation in hospital, school, and industrial settings;

and identification and evaluation of auditory pathologies. Required projects in screening and pure-tone audiometry. Prereq., SLHS 3106. Prerequisites: Restricted to Speech, Language, and Hearing Sciences majors only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology |
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SLHS-4714 (3) Audiological Rehabilitation

Covers basic principles and techniques related to the habilitation and rehabilitation of individuals who are deaf or hard of hearing: amplification, speech, language, auditory, speech reading, and educational issues. Prereq. or coreq., SLHS 4704, and LING 3100 or SLHS 3006.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology |
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SLHS-4849 (1-4) Independent Study for Undergraduates

May be repeated up to 7 total credit hours. Prereq., departmental consent.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Independent Study |
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SLHS-4918 (2) Introduction to Clinical Practice

Introduces students to the clinical processes and key components of assessment and interventions. Explores the applications of the theoretical and scientific information to clinical settings. Students complete supervised observation of individuals with communication challenges. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Speech, Language and Hearing Sciences (SLHS) majors only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Practica |
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SLHS-4938 (1-6) Internship: Speech-Language Intervention

Provides a supervised clinical experience with children who have communication challenges enrolled in the Child Learning Center programs; individuals demonstrating communication disorders as a cotherapist in the Speech, Language, and Hearing Center; or off-campus experience in an affiliated hospital or public school program. May be repeated up to 6 total credit hours.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Practica |
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SLHS-5000 (2) SLHS Research Methods 1

Familiarizes students with basic methodologies and research designs employed in the field. Focuses on critical reading of research papers and design of experiments. At least one research project is conducted and written as part of the course requirements. May be repeated up to 4 total credit hours.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5006 (2) Applied Speech Science

Provides an advanced understanding of the acoustics, aerodynamics, and biomechanics of speech production and related non-speech behaviors. Emphasizes the integration of theoretical constructs in the speech sciences with applied clinical and basic research. Prereq., SLHS 3136 or equivalent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci |
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SLHS-5032 (3) Competencies and Strategies for the SLPA

Includes roles and responsibilities for the Speech Language Pathology Assistant (SLPA) working in the public schools, service delivery models, health and safety, screening assistive technology, intervention and self reflection and evaluation. Prereq., SLHS 4918. Must be accepted in the SLPA certification program.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology |
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SLHS-5110 (2) Clinical Theory and Practice

Reviews models and theoretical perspectives regarding communication disorders with application to the clinical processes of assessment, intervention, counseling, and efficacy of intervention. Focuses on issues, challenges, and skills related to working with consumers of speech-language pathology and audiology services and their families, cultural competence, legal and ethical practices, teaming, and collaborative service delivery. Prereq., graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5120 (3) Foreign Language Learning in Students with Language Learning Disabilities

Introduces a foundational knowledge of language based learning and processing problems that impact foreign language learning in students with disabilities. Must be accepted into the MFL certificate program.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5130 (3) Curricular Accommodation Programs for Students with Foreign Language Learning Disabilities

Provides knowledge about the legal bases for student accommodations for MFL learning disabilities, the administrative procedures and policies surrounding accommodations, assessment, advising and related implementation issues. Must be accepted into the MFL certificate program.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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Courses

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SLHS-1010 (3) Disabilities in Contemporary American Society

Addresses the issue that 50 percent of all individuals experience disability in their lifetime. Introduces students to the social, cultural, psychological, economic, political, legal, and health-care issues related to society and individuals with disabilities. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-2000 (3) Introduction to Communication Disorders

Surveys communication disorders, including hearing impairments, learning disabilities, and speech-language disorders, as well as an introduction to basic speech and hearing science.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-2010 (3) Science of Human Communication

Discusses how human communication (the process by which a thought is transmitted from the brain of a speaker to the brain of a listener) involves a complex interaction of acoustics, anatomy, physiology, neurobiology, and psychology. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-4000 (3) Multicultural Aspects of Communication Differences and Disorders

Examines perceptions and attitudes regarding differences in communication as a function of cultural-linguistic diversity. Discusses implications of differing verbal and nonverbal communication styles of various cultural groups in terms of professional responsibilities. Prereq., upper-division standing and a minimum of 60 credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-4100 (1-3) Special Topics in Speech, Language, and Hearing Sciences

Studies selected topics in speech, language, hearing sciences, communication disorders, and other professional issues.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-4560 (3) Language Development

Covers the development of language in childhood and into adult life, emphasizing the role of environment and biological endowment in learning to communicate with words, sentences, and narratives. Restricted to Speech, Language, and Hearing Sciences majors only. Same as LING 4560, PSYC 4560. Prerequisites: Restricted to Speech, Language, and Hearing Sciences majors only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5000 (2) SLHS Research Methods 1

Familiarizes students with basic methodologies and research designs employed in the field. Focuses on critical reading of research papers and design of experiments. At least one research project is conducted and written as part of the course requirements. May be repeated up to 4 total credit hours.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5110 (2) Clinical Theory and Practice

Reviews models and theoretical perspectives regarding communication disorders with application to the clinical processes of assessment, intervention, counseling, and efficacy of intervention. Focuses on issues, challenges, and skills related to working with consumers of speech-language pathology and audiology services and their families, cultural competence, legal and ethical practices, teaming, and collaborative service delivery. Prereq., graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5120 (3) Foreign Language Learning in Students with Language Learning Disabilities

Introduces a foundational knowledge of language based learning and processing problems that impact foreign language learning in students with disabilities. Must be accepted into the MFL certificate program.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5130 (3) Curricular Accommodation Programs for Students with Foreign Language Learning Disabilities

Provides knowledge about the legal bases for student accommodations for MFL learning disabilities, the administrative procedures and policies surrounding accommodations, assessment, advising and related implementation issues. Must be accepted into the MFL certificate program.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-5140 (3) Accommodated Foreign Lang Instructional Interventions for Students with Lang Learning Disabilities

Provides knowledge of the principles and skills used to develop modified foreign language instruction for students with language based learning disabilities. Must be accepted into the MFL certificate program.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-6000 (1-4) Problems in Speech, Language and Hearing Sciences

Studies selected topics related to the theory and management of communication disorders, and theoretical/scientific information related to speech, language, and hearing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-6650 (2) Counseling and Professional Ethics

Explores counseling theories and techniques following the diagnosis of a disability across the life span. Considers issues related to grieving and mourning, parenting, disability, cultural customs, attachment, and relationships. Covers professional ethics and ethical responsibilities. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-6660 (1) Multicultural Issues in SLHS and Communication Theory

Provides an in-depth understanding and first-hand knowledge of different racial, ethnic and religious communities, which is necessary to develop and refine multicultural clinical competence. Incorporates scholarly readings and experiential learning in multicultural settings and fosters participants' qualitative research skills. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-6670 (3) Adult Aural Rehabilitation

Provides an investigation of the impact of hearing loss on adults. Psycho-social aspects, communication challenges, assessment and intervention for adult hearing disorders including presbycusis, tinnitus, vestibular disorders, auditory central processing disorders and sudden hearing loss. Prereq., SLHS 6544. Recommended prereqs., SLHS 7814 and 7540. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-6940 (1) Candidate for Degree

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-6950 (1-7) Master's Thesis

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-7000 (3) Research Designs in Human Communication Sciences and Disorders

Offers an advanced seminar in research designs for human behavior: efficacy, ethnographic, single-subject, quasi-experimental, and experimental designs. Designed to familiarize students with terminologies and research designs frequently used in speech-language-hearing areas. Prereq., basic statistics.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-7100 (3) Cognitive Bases of Human Communication and Its Disorders

Explores major cognitive theories related to language, including connectionism, information processing, and cognitive mechanisms of early lexical learning. Discusses data from children and adults. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-7200 (3) Business, Management and Ethics in Audiology

Focuses on the business aspects of managing an audiology practice. Addresses developing a business plan, contracting for services, legal issues, financial reporting, budgeting, pricing, billing and reimbursement, regulatory issues, marketing, personnel management, risk abatement, and business ethics. Prereq., good standing in the SLHS graduate program or instructor consent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-7450 (3) Audiology Capstone Project

Provides an individualized project for AUD, completed prior to initiation of final clinical year. May be in the form of research-based investigation, an evidence-based position paper, a clinical protocol based on peer-reviewed literature, a grant proposal, or another format approved by AUD committee. Project requires approved proposal by AUD committee and focused study supervised by capstone advisor. Restricted to students enrolled in the AUD graduate program. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, PSYC 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SLHS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department |
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SNSK-1010 (3-4) Introductory Sanskrit 1

[College of Arts & Sciences](#)
[Religious Studies](#)
[Sanskrit](#)

SNSK-1020 (3-4) Introductory Sanskrit 2

Prereq., SNSK 1010.

[College of Arts & Sciences](#)
[Religious Studies](#)
[Sanskrit](#)

RLST-1620 (3) Religious Dimension in Human Experience

Studies religion as individual experience and social phenomenon. Examines varieties of religious language (symbol, myth, ritual, scripture) and of religious experience (Asian, Western, archaic). Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
[Religious Studies](#)

RLST-1850 (3) Ritual and Media

Ritual continues to play an important role in contemporary societies in both religious and secular contexts. This course examines the elements and genres of ritual activity from African rites of passage to the Beijing Olympics, paying close attention to how the media documents, appropriates and transforms aspects of ritual. Approved for arts and sciences core curriculum: Contemporary Societies.

College of Arts & Sciences Religious Studies

SNSK-2110 (3-4) Intermediate Sanskrit 1

Continued study of the grammar of classical Sanskrit and translation of selected readings from the literature. Meets MAPS requirement for foreign language. Prereq., SNSK 1020.

College of Arts & Sciences Religious Studies Sanskrit

SNSK-2120 (3-4) Intermediate Sanskrit 2

Continuation of SNSK 2120. Prereq., SNSK 2110.

College of Arts & Sciences Religious Studies Sanskrit

RLST-2400 (3) Religion and Contemporary Society

Studies the nature of contemporary American society from various theoretical perspectives in religious studies. Gives attention to the impact of secularization and to the religious elements found in aspects of secular life (e.g., politics, literature, education, and recreation). Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Religious Studies

RLST-2500 (3) Religions in the United States

Explores the development of various religions within the shaping influences of American culture, including separation of church and state, the frontier experience, civil religion, and the interaction of religions of indigenous peoples, immigrants, and African Americans. Approved for GT-AH2. Approved for arts and sciences core curriculum: United States context or ideals and values.

College of Arts & Sciences Religious Studies

RLST-2600 (3) Judaism, Christianity, and Islam

Introduces literature, beliefs, practices, and institutions of Judaism, Christianity, and Islam, in historical perspective. Same as JWST 2600. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Religious Studies

RLST-2610 (3) Religions of South Asia

Introduces the literature, beliefs, practices, and institutions of Hinduism, Buddhism, Jainism, and Sikhism, in historical perspective. Approved for GT-AH2. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Religious Studies

RLST-2620 (3) Religions of East Asia

Introduces literature, beliefs, practices, and institutions of Taoism, Confucianism, Buddhism, and Shintoism in historical perspective. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Religious Studies

RLST-2700 (3) American Indian Religious Traditions

Introduces religions of the peoples indigenous to the Americas. Concerns include ritual, mythology, and symbolism occurring throughout these cultures in such areas as art, architecture, cosmology, shamanism, sustenance modes, trade, and history. Same as ETHN 2703. Approved for GT-AH2. Approved for arts and sciences core curriculum: ideals and values or human diversity.

College of Arts & Sciences Religious Studies

RLST-2800 (3) Women and Religion

Examines roles of women in a variety of religious traditions including Judaism, Christianity, Hinduism, Buddhism, and goddess traditions. Same as WMST 2800. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Religious Studies

RLST-2840 (1-3) Independent Study

May be repeated up to 8 total credit hours.

College of Arts & Sciences Religious Studies

RLST-3000 (3) Christian Traditions

Studies origins and development of various aspects of Christian tradition as expressed through scripture, theology, ritual, church order, ethics, and the arts. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Religious Studies

RLST-3010 (3) Religion and the Senses

Expanding the five common senses so they are grounded on a more fundamental kinesthetic sense, that is, sense of movement, this course focuses on the study of religion and culture on all those marvelous richly and sensuously textured aspects of religious behavior: movement, experience, feeling, action, sensation, gesture, art, music, dancing, architecture, costume, food, and ritual.

College of Arts & Sciences | Religious Studies

RLST-3020 (3) Advanced Writing in Religious Studies

Seminar for religious studies majors that emphasizes the development of writing skills for use inside as well as outside the academy. Writing assignments are focused on one or more core topics in religious studies. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Religious Studies (RLST) majors only.

College of Arts & Sciences | Religious Studies

RLST-3050 (3) Religion and Literature in America

Studies religious dimensions of American culture through representative literature, beginning with the Puritans and focusing on diversity in the 19th and 20th centuries. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Religious Studies

RLST-3100 (3) Judaism

Explores Jewish religious experience and its expression in thought, ritual, ethics, and social institutions. Same as JWST 3100. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Religious Studies

RLST-3200 (3) Hinduism

Studies literature, beliefs, practices, and institutions of Hinduism, in historical perspective.

College of Arts & Sciences | Religious Studies

RLST-3300 (3) Foundations of Buddhism

Introduction to Buddhist thought and practice in the variety of its historical and cultural contexts. The course begins with an exploration of narrative, cosmology, doctrine and ritual in early Buddhism

and the Theravada of South and Southeast Asia. Through case studies, we then trace diverse conceptions of the Buddhist path in Tibet and East Asia where the Mahayana spread. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Religious Studies

RLST-3400 (3) Japanese Religions

Studies the literature, beliefs, practices, and institutions of Shinto, Buddhism, and Confucianism within the development of Japanese culture.

College of Arts & Sciences | Religious Studies

RLST-3600 (3) Islam

Introduces Islamic beliefs and practices through an examination of the Qur'an, Muhammad's life, ritual duties, law and theology, mysticism, and social institutions.

College of Arts & Sciences | Religious Studies

RLST-3750 (3) Women in Buddhism

Explores diverse representations of the female in Buddhist literature and the social realities of actual women in Asian historical contexts. Through case studies that traverse Buddhist Asia, we delve into monastic views of the female body, philosophical analyses of the emptiness of gender, idealized images of the feminine in Buddhist tantra, and contemporary issues such as the nun's revival moment. Same as WMST 3750.

College of Arts & Sciences | Religious Studies

RLST-3800 (3) Chinese Religions

Studies classical Confucianism, Taoism, Buddhism, and Neo-Confucianism within the historical context of Chinese culture.

College of Arts & Sciences | Religious Studies

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SNSK-1010 (3-4) Introductory Sanskrit 1

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

SNSK-1020 (3-4) Introductory Sanskrit 2

Prereq., SNSK 1010.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

SNSK-2110 (3-4) Intermediate Sanskrit 1

Continued study of the grammar of classical Sanskrit and translation of selected readings from the literature. Meets MAPS requirement for foreign language. Prereq., SNSK 1020.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

SNSK-2120 (3-4) Intermediate Sanskrit 2

Continuation of SNSK 2120. Prereq., SNSK 2110.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

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SWED-1010 (4) Beginning Swedish 1

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Swedish](#)

SWED-1020 (4) Beginning Swedish 2

Prereq., SWED 1010 (min grade of C-).

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Swedish](#)

SWED-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Swedish](#)

SWED-2110 (4) Second-Year Swedish Reading and Conversation 1

Prereq., SWED 1020 (min grade C-). Meets MAPS requirement for foreign language. Fulfills the arts and sciences language requirement for the BA and BFA degrees. Approved for GT-AH4.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish

SWED-2120 (4) Second-Year Swedish Reading and Conversation 2

Prereq., SWED 2110 with a grade of C- or better.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish

SWED-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Swedish

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RUSS-1010 (4) Beginning Russian 1

For students with no previous training in Russian. Credit not granted for this course and RUSS 1050.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

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SLHS-1010 (3) Disabilities in Contemporary American Society

Addresses the issue that 50 percent of all individuals experience disability in their lifetime. Introduces students to the social, cultural, psychological, economic, political, legal, and health-care issues related to society and individuals with disabilities. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

[College of Arts & Sciences](#) | [Speech, Language, & Hearing Sciences](#) | [Didactic: All-Department](#)

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SNSK-1010 (3-4) Introductory Sanskrit 1

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

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SWED-1010 (4) Beginning Swedish 1

[College of Arts & Sciences](#) | [Germanic & Slavic Languages & Literature](#) | [Swedish](#)

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TBTN-1010 (4) Beginning Colloquial Tibetan I

Provides a thorough introduction to colloquial forms of Tibetan. This course focuses on conversation practice, the acquisition of basic vocabulary and grammar in colloquial usage, learning the alphabet, and training in the skills of pronunciation, spelling and handwriting.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

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TBTN-1010 (4) Beginning Colloquial Tibetan I

Provides a thorough introduction to colloquial forms of Tibetan. This course focuses on conversation practice, the acquisition of basic vocabulary and grammar in colloquial usage, learning the alphabet, and training in the skills of pronunciation, spelling and handwriting.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

TBTN-1020 (4) Beginning Colloquial Tibetan II

Provides a thorough introduction to colloquial forms of Tibetan. This course continues the development of vocabulary and grammar begun in Tibetan I and expands the range of conversation topics. While students focus on oral and aural skills, they begin to learn to read and write modern Tibetan to produce an overall knowledge of the language. Prereq., TBTN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

TBTN-2010 (4) Intermediate Colloquial Tibetan I

Aims at increasing students' proficiency in colloquial forms of Tibetan. This course expands knowledge of the vocabulary and grammar of spoken Tibetan and engages in more advanced conversation topics while also continuing to develop reading knowledge of modern Tibetan. Prereq., TBTN 1010 and 1020 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

TBTN-2020 (4) Intermediate Colloquial Tibetan II

Aims at increasing students' proficiency in colloquial forms of Tibetan. This course expands knowledge of the vocabulary and grammar of colloquial Tibetan and also continues to develop knowledge of reading and writing modern Tibetan. Prereq., TBTN 2010 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-3210 (4) Beginning Literary Tibetan 1

Provides a thorough introduction to literary and colloquial forms of Tibetan. This course focuses on the grammatical foundation of the language, the acquisition of basic vocabulary, and training in the skills of pronunciation, conversation, handwriting and spelling.

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-3220 (4) Beginning Literary Tibetan 2

Continuation of TBTN 3210. Provides a thorough introduction to literary and colloquial forms of Tibetan. This course continues the grammar and vocabulary work begun in Tibetan 1 by studying actual Tibetan text and moving to more advanced conversation topics. Students develop oral, aural, and written skills to produce an overall knowledge of the language. Prereq., TBTN 3210 (min grade C-).

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-4210 (4) Intermediate Literary Tibetan 1

Aims at increasing students' proficiency in literary and colloquial forms of Tibetan. This course expands knowledge of the grammar and vocabulary of literary Tibetan through translating texts in a variety of genres and also continues to develop knowledge of spoken modern Tibetan. Prereqs., TBTN 3210 and 3220 (min grade C-).

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-4220 (4) Intermediate Literary Tibetan 2

Continuation of TBTN 4210. Aims at increasing students' proficiency in literary and colloquial forms of Tibetan. This course expands knowledge of the grammar and vocabulary of literary Tibetan through translating texts in a variety of genres and also continues to develop knowledge of spoken modern Tibetan. Prereq., TBTN 4210 (min grade C-).

College of Arts & Sciences Asian Languages & Civilizations Tibetan

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YIDD-1010 (4) Beginning Yiddish 1

Introduces students to speaking, listening, reading, and writing skills in the historic language of Ashkenazic Jewry. Uses grammar as point of departure for development of oral skills.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish

YIDD-1020 (4) Beginning Yiddish 2

Continuation of YIDD 1010. Prereq., YIDD 1010 (min. grade C-) or placement.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish

YIDD-2010 (4) Intermediate Yiddish 1

Review and continuation of skills begun in the first year: reading, writing, speaking, and oral comprehension. Provides an intensive introduction to cultural and literary texts of central and eastern European Jewish culture. Prereq., YIDD 1020 (min. grade C-) or placement.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Yiddish

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CHEM-1011 (3) Environmental Chemistry 1

Lect. Introduces basic principles of chemistry with applications to current environmental issues including toxic chemicals, air and water pollution, energy sources and their environmental impact, and climate change resulting from the greenhouse effect. No credit given to chemistry or biochemistry majors for CHEM 1011 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-1021 (4) Introductory Chemistry

Lect. and lab. For students with no high school chemistry or a very weak chemistry background. Remedies a deficiency in natural science MAPS requirements and prepares students for CHEM 1113/1114. No credit given to chemistry or biochemistry majors for CHEM 1021 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., one year high school algebra or concurrent enrollment in MATH 1011. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-1031 (4) Environmental Chemistry 2

Lect. and lab. Applications of chemical principles to current environmental issues including acid rain, stratospheric ozone depletion, the Antarctic ozone hole, solar energy conversion and fuel cells, and the environmental consequences of nuclear war. Laboratory experience is included. No credit given to chemistry or biochemistry majors for 1031 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., CHEM 1011 with a grade of C- or higher. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-1113 (4) General Chemistry 1

Lect., rec. Intended for first-semester students whose academic plans require advanced work in chemistry. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1114. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEN 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

College of Arts & Sciences | Chemistry

CHEM-1114 (1) Laboratory in General Chemistry 1

Lab. Intended for first-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1113. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1113. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEN 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

College of Arts & Sciences | Chemistry

CHEM-1133 (4) General Chemistry 2

Lect., rec. Intended for second-semester students whose academic plans require advanced work in chemistry. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1134. Credit not granted for this course and CHEM 1131, 1271 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

College of Arts & Sciences | Chemistry

CHEM-1134 (1) Laboratory in General Chemistry 2

Lab. Intended for second-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1133. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1133. Credit not granted for this course and CHEM 1131, 1271, or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

College of Arts & Sciences | Chemistry

CHEM-1221 (2) Engineering General Chemistry Lab

Coreq., CHEN 1211. One hour recitation in which concepts and problems are re-emphasized, homework is collected, and quizzes are given. Three hour lab in which students perform experiments designed to illustrate chemical concepts discussed in CHEN 1211. Also introduction to basic techniques in chemical measurements and synthesis. Prereq., one year high school chemistry or CHEM 1001 or 1021 (min grade C-); high school algebra. Coreq., CHEN 1211. Credit not granted for this course and CHEM 1111, 1113/1114, 1251 or 1351. Restricted to engineering students only. Prerequisites: Requires pre-requisite of course CHEM 1001 or 1021 (minimum grade C-). Requires co-requisite of course CHEN 1211. Restricted to Engineering students only.

College of Arts & Sciences | Chemistry

CHEM-1251 (5) General Chemistry 1 for Chemistry and Biochemistry Majors

Lect. and lab. Intended for first-semester CHEM/BCHM majors. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (minimum grade C-); high school math through pre-calculus. Not recommended for students with grade below B- in CHEM 1021. Restricted to CHEM/BCHM majors. Credit not granted for this course and CHEM 1113/1114, CHEM 1351, or CHEN 1211/CHEM 1221. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences | Chemistry

CHEM-1271 (5) General Chemistry 2 for Chemistry and Biochemistry Majors

Lect. and lab. Intended for second-semester CHEM/BCHM majors. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1251 or equivalent (minimum grade C-). Restricted to CHEM/BCHM majors. Credit not granted for this course and CHEM 1131, 1133/1134 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of CHEM 1251 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences | Chemistry

CHEM-1351 (5) Honors General Chemistry 1

Lect. and lab. Principles of chemistry and their applications are covered in a comprehensive manner (honors level) in this low-enrollment freshman course. Lectures include topics not covered in CHEM 1113/1114-1133/1134. The laboratory experience is more extensive; therefore, the CHEM 1351-371 sequence is highly recommended for well-prepared students who intend to major in chemistry, chemical engineering, physics, molecular biology, or related areas. Prereqs., one year high school chemistry; four years of high school math and/or a high score on the SAT or ACT math exam and one year of high school physics. Credit not granted for this course and CHEM 1113/1114, 1221, 1251, and CHEN 1211. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Chemistry

CHEM-1371 (5) Honors General Chemistry 2

Lect. and lab. Continuation of CHEM 1351. Prereq., CHEM 1351 (min grade C-). Credit not granted for this course and CHEM 1131, 1133/1134 or 1271. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of CHEM 1351 (minimum grade C-).

College of Arts & Sciences | Chemistry

CHEM-3151 (3) Air Chemistry and Pollution

Examines the composition of the atmosphere, and sources of gaseous and particulate pollutants: their chemistry, transport, and removal from the atmosphere. Applies general principles to acid rain, smog, and stratospheric ozone depletion. Prereqs., two semesters of chemistry. ATOC 3500 and CHEM 3151 are the same course. CHEM 3151 was formerly CHEM 3500. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Chemistry

CHEM-3251 (3) Sustainable Energy from a Chemistry Perspective

Explores qualitative and quantitative chemical aspects of energy systems (production, transmission, storage, utilization) including fossil, wind, solar, nuclear and biomass energy. Applies chemical principles including composition, structure, bonding, physical properties, thermodynamics, equilibrium and kinetics to energy systems and sustainability, especially environmental implications. Describes the importance of energy to the chemical industries and society as a whole. Prereqs., CHEM 1133/1134, CHEM 1271, CHEM 1371, or CHEN 1211/CHEM 1221 (min. grade C-).

College of Arts & Sciences | Chemistry

CHEM-3311 (4) Organic Chemistry 1

Lect. and rec. Intended primarily for nonmajors. Topics include structure and reactions of alkanes, alkenes, alkynes, alkyl halides, and aromatic molecules; nomenclature of organic compounds; stereochemistry; reaction mechanisms and dynamics. Students may receive credit for only one of CHEM 3311 and 3351. Prereq., CHEM 1133/1134 (formerly 1131), 1271, or 1371 (min grade C-); for engineering students only: CHEN 1211/CHEM 1221 (min grade C-) or equivalent; coreq., CHEM 3321 or 3361. Prerequisites: Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221.

College of Arts & Sciences | Chemistry

CHEM-3321 (1) Laboratory in Organic Chemistry 1

Lab. Instruction in experimental techniques of modern organic chemistry emphasizing chemical separations and reactions of alkanes, alkenes, and aromatic compounds. Stereochemical modeling and the identification of organic unknowns by spectroscopic and chemical methods are also introduced. Prereqs., CHEM 1133/1134 (formerly 1131), 1271, 1371, or CHEN 1211/CHEM 1221 (min grade C-) or equivalent. Coreq., CHEM 3311 or 3351. For biochemistry and nonchemistry majors. Credit not granted for this course and CHEM 3361. Prerequisites: Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221.

College of Arts & Sciences | Chemistry

CHEM-3331 (4) Organic Chemistry 2

Lect. and rec. Intended primarily for nonmajors. Topics include structure and reactions of alkyl halides, alcohols, ethers, carboxylic acids, aldehydes, ketones, and amines; introduction to the chemistry of heterocycles, carbohydrates, and amino acids; nomenclature of organic compounds; synthesis; and reaction mechanisms. Prereq., CHEM 3311 or 3351 and CHEM 3321 or 3361 (all min grade C-). Coreq., CHEM 3341 or 3381. Credit not granted for this course and CHEM 3371. Prerequisites: Requires pre-requisite courses of CHEM 3311 or 3351, and CHEM 3321 or 3361 (minimum grade C- for all).

College of Arts & Sciences | Chemistry

CHEM-3341 (1) Laboratory in Organic Chemistry 2

Lab. For biochemistry and nonchemistry majors. Instruction in experimental techniques of modern organic chemistry emphasizing reactions involving alcohols, ketones, carboxylic acids, and their derivatives. Multistep syntheses are also introduced. Prereq., CHEM 3321 or 3361 (min grade C-). Coreq., CHEM 3331 or 3371. Prerequisites: Requires pre-requisite courses of CHEM 3311 or 3351, and CHEM 3321 or 3361 (minimum grade C- for all).

College of Arts & Sciences | Chemistry

CHEM-3351 (4) Organic Chemistry 1 for Chemistry and Biochemistry Majors

Lect. and rec. Intended primarily for majors. Topics include structure and reactions of alkanes, alkenes, alkynes, alkyl halides, and aromatic molecules; nomenclature of organic compounds; stereochemistry; reaction mechanisms, dynamics and organic spectroscopy. Students may receive credit for only one of CHEM 3311 and 3351. Prereq., CHEM 1133/1134 (formerly 1131), 1271, or 1371 (min grade C-); coreq., CHEM 3321 or 3361. Prerequisites: Restricted to CHEM and BCHM majors. Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221.

College of Arts & Sciences | Chemistry

CHEM-3361 (2) Laboratory in Organic Chemistry 1 for Chemistry Majors

Lab. Required course for chemistry majors. Instruction in experimental techniques of modern organic chemistry emphasizing chemical separations and reactions of alkanes, alkenes, alcohols, ketones, and alkyl halides. Explores stereochemical modeling and the chemical identification of organic unknowns. Coreq., CHEM 3351 or 3311. Credit not granted for this course and CHEM 3321. Prerequisites: Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221 (min grade C-). Restricted to Chemistry and Biochemistry majors.

College of Arts & Sciences | Chemistry

CHEM-3371 (4) Organic Chemistry 2 for Chemistry and Biochemistry Majors

Lect. and rec. Topics include structure and reactions of carboxylic acids and derivatives, aromatic compounds, and amines; introduction to the chemistry of heterocycles, carbohydrates, and amino acids; nomenclature of organic compounds; reaction mechanisms. Prereqs., CHEM 3351 or 3311 and CHEM 3361 or 3321 (min grade C-). Prereq. or coreq., CHEM 3381 or 3341. Credit not granted for this course and CHEM 3331. Prerequisites: Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences | Chemistry

CHEM-3381 (2) Laboratory in Organic Chemistry 2 for Chemistry Majors

Lab. Required course for chemistry majors. Instruction in experimental techniques of modern chemistry, emphasizing reactions involving alcohols, ketones, carboxylic acids, aromatic compounds, and their derivatives. Multistep syntheses are also introduced. Prereqs., CHEM 3321 or 3361 and CHEM 3341 (min grade C-). Prereq. or coreq., CHEM 3331 or 3371. Prerequisites: Requires pre-requisite courses of CHEM 3311 or 3351, and CHEM 3321 or 3361 (minimum grade C- for all). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences | Chemistry

CHEM-4011 (3) Modern Inorganic Chemistry

Lect. Required course for chemistry majors. Introduces modern inorganic chemistry for undergraduates. Includes atomic structure, chemical periodicity, structure and bonding in molecules and crystals, reaction mechanisms, chemistry of selected main group and transition elements, and emphasis on catalyst, materials, bioinorganic, and organometallic systems. Prereq. or coreq., CHEM 4431, 4521, or 4531 (min grade C-).

College of Arts & Sciences | Chemistry

CHEM-4021 (3) Inorganic Laboratory

One lect. and two 3-hour labs per week. Instruction in experimental techniques of modern inorganic chemistry. Includes syntheses and spectroscopic characterizations of transition metal and main group compounds, experience in manipulation of air sensitive compounds, and techniques involving unusual conditions of pressure or temperature. Prereq., CHEM 4011 (min grade C-). Prerequisites: Requires prerequisite course of CHEM 4011 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences | Chemistry

CHEM-4171 (3) Instrumental Analysis

Lect. Theory and practice of instrumental methods of chemical analysis including atomic and molecular spectroscopy, gas and liquid chromatography, mass spectrometry, and electrochemistry. Prereqs., CHEM 3331 or 3371 (min grade C-).

College of Arts & Sciences | Chemistry

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YIDD-1010 (4) Beginning Yiddish 1

Introduces students to speaking, listening, reading, and writing skills in the historic language of Ashkenazic Jewry. Uses grammar as point of departure for development of oral skills.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Yiddish](#)

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ARAB-1011 (3) Introduction to Arab and Islamic Civilizations

Provides an interdisciplinary overview of the cultures of the Arabic-speaking peoples of Southwest Asia and North Africa from the rise of Islam in the 7th century to the present. Readings include historical, religious, literary and cultural texts from both the medieval and modern eras. Taught in English. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Arabic](#)

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CHEM-1011 (3) Environmental Chemistry 1

Lect. Introduces basic principles of chemistry with applications to current environmental issues including toxic chemicals, air and water pollution, energy sources and their environmental impact, and climate change resulting from the greenhouse effect. No credit given to chemistry or biochemistry majors for CHEM 1011 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Chemistry](#)

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FRSI-1011 (3) Introduction to Persian Civilization

An introduction to the history, literature and art of Iranian (Persian) civilization with a focus on the social and cultural aspects of contemporary Iran. Taught in English.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

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HIND-1011 (3) Introduction to South Asian Civilizations

Survey of traditional and modern world views and experiences of people on the Indian subcontinent through literature and film, beginning with the Ramayana and including medieval tales, modern novels, and feature films. Formerly HNDI 1011. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Hindi](#)

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INDO-1011 (3) Introduction to Indonesian Civilization

Provides an overview of the past and present of Indonesia, the people, and their cultures. Discussions with guest speakers, and on films, music, and images, will allow them to get acquainted with important issues and values in today's Indonesia. A closer look to the five major islands in the archipelago will introduce them to the diversity of this nation's 234,693,997 people. Taught in English.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Indonesian](#)

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KREN-1011 (3) Introduction to Korean Civilization

Introduces the history of Korean culture within the context of political, social, and economic history. Covers the old Choson dynasty to present day Korea. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Korean](#)

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MATH-1011 (3) Fundamentals and Techniques of College Algebra

Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions, and graphs, and systems of equations. Credit not granted for this course and MATH 1005 or 1150. Prereq., one year high school algebra. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) [Mathematics](#)

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CHIN-1012 (3-4) Introduction to Chinese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of China. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese Courses in English](#)

CHIN-1051 (3) Masterpieces of Chinese Literature in Translation

Surveys Chinese thought and culture through close reading and discussion of selected masterworks of Chinese literature in translation. Texts include significant works of poetry, fiction, and drama, as well as philosophical and historical writings from various eras. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese Courses in English](#)

CHIN-1061 (3) Boudoirs, Books, Battlefields: Voices and Images of Chinese Women

Explores narrative and visual representations of women throughout Chinese history. Emphasizes how modern values of freedom and equality have transformed women's lives and shaped their aspirations. Course materials include memoirs, novels, ethnographies, documentaries, and feature films. No knowledge of Chinese is necessary. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese Courses in English](#)

CHIN-2441 (3) Film and the Dynamics of Chinese Culture

Through studying a group of Chinese films in light of modern Chinese history and literature, students examine a series of cultural dilemmas and issues in 20th century China and develop skills in analyzing literary and filmic texts. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3311 (3) The Dao and the World in Medieval China

An interdisciplinary examination of role of Daoist and Buddhist philosophical and religious concepts and images in medieval Chinese civilization, including literature and the arts. Focuses on the personal aspects of this period of religious and intellectual ferment, tracing the representation of these ideas in Chinese poetry, prose, painting and the plastic arts as well as their role in philosophical and religious speculation. Taught in English. Recommended prereq., CHIN 1012 or 1051.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3321 (3) Culture and Literature of Ancient China

Focuses on the religious, cultural, philosophical, and literary aspects of ancient Chinese civilization (1500 B.C.-A.D. 200). Special attention is paid to foundational works that influenced later developments in Chinese culture. All readings are in English. Recommended prereq., CHIN 1012 or 1051. Same as HUMN 3321.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3331 (3) Culture and Literature of Late Imperial China

The late imperial period was marked by growth of great metropolitan areas, expanded urban entertainments, and an extensive popular culture. Focuses on the literature and artifacts of this urban culture as well as the hegemonic culture of the state and of traditional social codes and their literary manifestations. Also considers growing contacts with the West and the transition to the modern period. All readings are in English. Taught in English. Recommended prereq., CHIN 1012 or 1051.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3334 (3) Chinese Narrative Tradition

Examines the major works of Chinese narrative tradition from the fourth to the nineteenth century. Emphasizes the reading and analysis of selected texts and understanding of the cultural and social contexts of text production and circulation. Text selections vary from year to year. All readings are in English. Recommended prereq., CHIN 1012.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3341 (3) Literature and Popular Culture in Modern China

Surveys 20th century Chinese literature and popular culture against the historical background of rebellion, revolution, and reform. Emphasizes close and critical reading skills and an understanding of how aesthetic texts reflect and critically engage with historical and cultural experiences. Assignments include novels, essays, short stories, poems, plays, songs, films, and scholarly articles. Taught in English. Recommended prereq., CHIN 1021 or 1051. Same as HUMN 3341. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3342 (3) Literary Culture in Contemporary China

Surveys the late 20th century Chinese and Taiwanese literature and popular culture against the historical background Market Reform in China and the lifting of Martial Law in Taiwan. Emphasizes close and critical reading skills and an understanding of how aesthetic texts critically engage within historical and cultural experiences. Assignments include novels, essays, short stories, poems, plays, songs, films, and scholarly articles. Taught in English. Recommended prereq., CHIN 1012 or 1051.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3351 (3) Reality and Dream in Traditional Chinese Literature

Explores the role of dreams in pre-modern Chinese literature from the beginnings in the 2nd millennium B.C.E. to the 19th century. The source texts will range from religious, philosophical, medical and historical writings to poetry to various genres of fictional prose and drama. Taught in English. Prereq., junior standing or instructor consent. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3361 (3) Women and the Supernatural in Chinese Literature

Explores the relationship between the worlds of women and the supernatural in Chinese literature, from ancient to modern times. Focuses on selected significant works of classical and vernacular fiction, religious texts, and poetry. Taught in English. Prereq., junior standing or instructor consent.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

CHIN-3371 (3) Topics in Chinese Film

Offers in-depth, critical analysis of key issues in Chinese culture as represented in Chinese film. Focuses on various topics, such as specific directors, regions, representation of gender in Chinese film, historical periods, etc. Varies from year to year. Requires no knowledge of Chinese. May be repeated up to 6 total credit hours on different topics. Prereq., junior standing or instructor consent. Recommended prereq., CHIN 1051, 2441.

College of Arts & Sciences | Asian Languages & Civilizations | Chinese Courses in English

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JPNS-1012 (3-4) Introduction to Japanese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of Japan. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Japanese Courses in English](#)

JPNS-1051 (3) Masterpieces of Japanese Literature in Translation

Surveys Japanese thought and culture through careful reading and discussion of selected masterworks of Japanese literature in translation. Texts include significant works of poetry, fiction, drama, diaries, and essays, from ancient times to the present. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Japanese Courses in English](#)

JPNS-2441 (3) Japanese Culture through Film and Anime

Examines 20th century Japanese culture through cinematic and animated films. Studies films by Ozu, Kurosawa, Mizoguchi, and contemporary animators Tezuka, Miyazaki, and Kon Satoshi. Considers cultural issues raised in film and anime in light of modern Japanese history and literature. Requires no knowledge of Japanese.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Japanese Courses in English](#)

JPNS-3441 (3) Language and Japanese Society

Deals with major linguistic characteristics of Japanese as a medium of communication. Discusses complex linguistic processing of social status and empathy relationships, for example, with reference to the structure of Japanese society from ancient to contemporary times. Requires no knowledge of Japanese. Recommended prereq., JPNS 2120.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3811 (3) Love, Death, and Desire: Classical Japanese Literature in Translation

Surveys the major works and authors of classical Japanese literature, both poetry and prose, from the earliest historical records and literary anthologies through the Heian period (784--1185). Taught in English. Recommended prereq., JPNS 1051. Same as HUMN 3811.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3821 (3) Monsters, Monks, and Mayhem: Medieval Japanese Literature in Translation

Surveys the major works and authors of medieval Japanese (poetry, prose, and drama) from the Kamakura and Muromachi periods (1185--1600). Taught in English. Recommended prereq., JPNS 1051.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3831 (3) The Floating World of Play and Passion: Early Modern Japanese Literature in Translation

Surveys the major works, authors, and genres of literature from the Tokugawa through Meiji periods in their historical and cultural contexts. Attention is given to various approaches of literary analysis and interpretation. Taught in English. Recommended prereq., JPNS 1051.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3841 (3) Tradition and Transgression: Modern Japanese Literature in Translation

Surveys the major works, authors, and genres of literature from the late Meiji period and 20th century in their historical and cultural contexts. Attention is given to various approaches of literary analysis and interpretation. Taught in English. Recommended prereq., JPNS 1051. Same as HUMN 3841.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3851 (3) Studies in Japanese Popular Culture

Introduces aspects of Japanese popular culture from the early 1990s economic collapse until the present through a variety of artistic mediums including manga, anime, literature, live-action cinema, video gaming, music, and the visual arts. Taught in English. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Japanese Courses in English](#)

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CHIN-1012 (3-4) Introduction to Chinese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of China. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Chinese Courses in English](#)

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JPNS-1012 (3-4) Introduction to Japanese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of Japan. Approved for arts and sciences core curriculum: human diversity.

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MATH-1012 (3) Quantitative Reasoning and Mathematical Skills

Promotes mathematical literacy among liberal arts students. Teaches basic mathematics, logic, and problem-solving skills in the context of higher level mathematics, science, technology, and/or society. This is not a traditional math class, but is designed to stimulate interest in and appreciation of mathematics and quantitative reasoning as valuable tools for comprehending the world in which we live. Credit not granted for this course and QRMS 1010. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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CLAS-1013 (4) Beginning Classical Greek 1

For students with no previous knowledge of Greek. Introduces basic grammar and vocabulary.

[College of Arts & Sciences](#)
[Classics](#)
[Greek](#)

CLAS-1023 (4) Beginning Classical Greek 2

Completes the presentation of grammar and introduces reading of literature. Prereq., CLAS 1013 or equivalent.

[College of Arts & Sciences](#)
[Classics](#)
[Greek](#)

CLAS-3013 (1) Readings in the Greek New Testament and Septuagint

Readings in ancient (koine) Greek from the New Testament and the Septuagint. Students aim to achieve fluency in reading and to enrich their knowledge of key terms and ideas borrowed from the Greek past in the early Christian tradition. May be repeated up to 4 total credit hours. Prereq., CLAS 1013 and 1023.

[College of Arts & Sciences](#)
[Classics](#)
[Greek](#)

CLAS-3113 (3) Intermediate Classical Greek 1

Reading of selected prose texts of authors in ancient Greek such as Plato, Xenophon, Lysias, and selections from the Greek New Testament. Incorporates review of grammar. May be repeated up to 6 total credit hours. Prereqs., CLAS 1013 and 1023 or equivalent. Meets MAPS requirement for foreign language.

College of Arts & Sciences Classics Greek

CLAS-3123 (3) Intermediate Classical Greek 2

Reading of selections from Homer or a Greek tragedy in ancient Greek, with attention to literary form and context as well as advanced grammar and syntax. May be repeated up to 6 total credit hours. Prereqs., CLAS 1013, 1023 and 3113, or equivalent.

College of Arts & Sciences Classics Greek

CLAS-4013 (3) Topics in Greek Prose

Author or topic in ancient Greek specified in the online Schedule Planner (e.g., Thucydides, Herodotus, Plato, Aristotle, Attic Orators). May be repeated up to 6 total credit hours for different topics. Same as CLAS 5013.

College of Arts & Sciences Classics Greek

CLAS-4023 (3) Topics in Greek Poetry

Author or topic in ancient Greek specified in the online Schedule Planner (e.g., Homer, Hesiod, lyric poetry, tragedy, comedy). May be repeated up to 9 total credit hours for different topics. Same as CLAS 5023.

College of Arts & Sciences Classics Greek

CLAS-4093 (3) Survey of Greek Literature

Greek literary history in ancient Greek from Homer to the Hellenistic age. Prereqs., CLAS 3113 and 3123 or equivalent. Same as CLAS 5093.

College of Arts & Sciences Classics Greek

CLAS-4843 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Classics Greek

CLAS-5013 (3) Topics in Greek Prose

Same as CLAS 4013. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Greek

CLAS-5023 (3) Topics in Greek Poetry

Same as CLAS 4023. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Greek

CLAS-5093 (3) Survey of Greek Literature

Same as CLAS 4093. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Greek

CLAS-6003 (3) Graduate Reading

Author or topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours for different topics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Greek

CLAS-6843 (1-3) Graduate Independent Study

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Greek

CLAS-7013 (3) Graduate Seminar in Greek Literature

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Greek

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CLAS-1014 (4) Beginning Latin 1

Introduces basic grammar and vocabulary. For students with no previous knowledge of Latin.

[College of Arts & Sciences](#)
[Classics](#)
[Latin](#)

CLAS-1024 (4) Beginning Latin 2

Completes the presentation of grammar, incorporates review of fundamentals, and introduces reading of literature. For students with previous experience of Latin. Prereq., CLAS 1014 or equivalent.

[College of Arts & Sciences](#)
[Classics](#)
[Latin](#)

CLAS-2004 (3) Accelerated Latin 1

Intensive introductory course in Latin including a survey of grammar and practice reading and writing. No previous knowledge of Latin is required. Formerly CLAS 5804.

[College of Arts & Sciences](#)
[Classics](#)
[Latin](#)

CLAS-2044 (3) Accelerated Latin 2

Continuation of CLAS 2004. Reading of advanced texts: Caesar, Cicero, Ovid and others. Prereq., CLAS 2004. Formerly CLAS 3004.

College of Arts & Sciences Classics Latin

CLAS-2114 (4) Intermediate Latin 1

Readings from Caesar and/or Cicero, with review of grammar. Prereq., CLAS 1024, or equivalent. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Classics Latin

CLAS-2124 (4) Intermediate Latin 2

Selections from Virgil's Aeneid with attention to literary form and context as well as advanced grammar and syntax. Prereq., CLAS 2114 or equivalent.

College of Arts & Sciences Classics Latin

CLAS-3014 (3) Introduction to Latin Prose

Author or topic in Latin specified in the online Schedule Planner (e.g., Cicero, Livy, Pliny). May be repeated up to 9 total credit hours for different topics.

College of Arts & Sciences Classics Latin

CLAS-3024 (3) Introduction to Latin Poetry

Author or topic in Latin specified in the online Schedule Planner (e.g., Virgil, Ovid, Catullus, Horace.) May be repeated up to 9 total credit hours for different topics.

College of Arts & Sciences Classics Latin

CLAS-4014 (3) Topics in Latin Prose

Author or topic in Latin specified in the online Schedule Planner (e.g., Roman historians, Roman epistolography, Cicero, Roman novel). May be repeated up to 9 total credit hours for different topics. Prereq., CLAS 3014 and 3024, or equivalent. Same as CLAS 5014.

College of Arts & Sciences Classics Latin

CLAS-4024 (3) Latin Prose Composition

Reviews grammar and syntax. Introduces Latin prose style and composition. Prereqs., CLAS 3014 and 3024, or equivalent. Same as CLAS 5024.

College of Arts & Sciences Classics Latin

CLAS-4044 (3) Topics in Latin Poetry

Author or topic specified in Latin specified in the online Schedule Planner (e.g., Roman elegy, Neronian poetry, Lucretius, Roman satire). May be repeated up to 9 total credit hours for different topics. Prereqs., CLAS 3014 and 3024, or equivalent. Same as CLAS 5044.

College of Arts & Sciences Classics Latin

CLAS-4084 (3) Survey of Roman Literature Part 2: Imperial

Covers Imperial Roman literary history from the mid-late Augustan Period to the start of Late Antiquity. Students read principal surviving works of Imperial Roman poetry and prose in the original Latin. Prereqs. CLAS 3014 and 3024 or equivalent. Same as CLAS 5084.

College of Arts & Sciences Classics Latin

CLAS-4094 (3) Survey of Roman Literature Part 1: Republican to Augustan

Introduces Roman literary history from its origins to the 30s BCE. Students read principal surviving works of the Roman Republican poetry and prose in the original Latin. Prereqs., CLAS 3014 and 3024 or equivalent. Same as CLAS 5094.

College of Arts & Sciences Classics Latin

CLAS-4824 (3) Latin Teaching Methods: Open Topics

Covers specialized topics in Latin pedagogy specified in the online Schedule Planner. Same as CLAS 5824.

College of Arts & Sciences Classics Latin

CLAS-4844 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Classics Latin

CLAS-5014 (3) Topics in Latin Prose

Same as CLAS 4014. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-5024 (3) Latin Prose Composition

Same as CLAS 4024. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-5044 (3) Topics in Latin Poetry

Author or topic specified in Latin specified in the online Schedule Planner (e.g., Roman elegy, Neronian poetry, Lucretius, Roman satire). May be repeated up to 9 total credit hours for different topics. Same as CLAS 4044. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-5084 (3) Survey of Roman Literature Part 2: Imperial

Same as CLAS 4084. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-5094 (3) Survey of Roman Literature Part 1: Republican to Augustan

Same as CLAS 4094. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-5404 (3) Special Project: Teaching

Trains students to prepare classroom-ready materials, which are then tested in the students' own classroom. Required of master's candidates (teaching of Latin option). Prereq., fulfillment of the remaining requirements for MA (teaching of Latin) or 27 hours of graduate work in classics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-5824 (3) Latin Teaching Methods: Open Topics

Same as CLAS 4824. Prerequisites: Restricted to Graduate Students only.

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College of Arts & Sciences | Classics | Latin

CLAS-6004 (3) Graduate Reading

Author or topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours for different topics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-6844 (1-3) Graduate Independent Study

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

CLAS-7014 (3) Graduate Seminar in Latin Literature

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Latin

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CLAS-1013 (4) Beginning Classical Greek 1

For students with no previous knowledge of Greek. Introduces basic grammar and vocabulary.

[College of Arts & Sciences](#) [Classics](#) [Greek](#)

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CLAS-1014 (4) Beginning Latin 1

Introduces basic grammar and vocabulary. For students with no previous knowledge of Latin.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

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HIST-1015 (3) History of the United States to 1865

Surveys American history from first settlement until end of the Civil War. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

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HIST-1015 (3) History of the United States to 1865

Surveys American history from first settlement until end of the Civil War. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-1025 (3) History of the United States since 1865

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-2015 (3) The History of Early America

Examines major themes in the development of colonial societies in North America from the 15th to the early 19th centuries. Explores intercultural relations, economic development, labor systems, religion and society, and family life. Specific course focus may vary. Approved for GT-HI1. Approved for arts and sciences core curriculum: United States context. Prerequisites: History majors are restricted from taking this course.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-3115 (3) Seminar in Early American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-3415 (3) Seminar in Recent American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to junior/senior HIST majors. .

College of Arts & Sciences | History | US: Chronological Periods

HIST-3845 (1-3) Independent Study

College of Arts & Sciences | History | US: Chronological Periods

HIST-4125 (3) British Colonial America, 1580--1756

Studies settlement and evolution of British Colonial America until the Seven Years' War. Prereqs., HIST 1015 or 1035. Same as HIST 5125. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4205 (3) The Colonial Wars and the Coming of American Independence, 1739--1776

Investigates imperial warfare and its effects during the late colonial period, concentrating on the French and Indian War (1754--1763), the disruption of Anglo-American relations, and the origins of the War of American Independence (1775--1783). Prereq., HIST 1015 or 1035. Same as HIST 5205. Credit not granted for this course and HIST 2215. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4215 (3) The Revolutionary War and the Making of the American Republic, 1775--1801

Investigates the Revolutionary War and its impact on the creation of American political institutions, as well as its cultural, social, and economic effects, from the Battles of Lexington and Concord through the inauguration of Thomas Jefferson. Prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors. Same as HIST 5215. Credit not granted for this course and HIST 2215.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4225 (3) The New Nation: America, 1800--1828

History of the United States from George Washington's inauguration to the election of Andrew Jackson. Deals with the political, social, economic, and cultural currents in the life of postrevolutionary America. Prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4235 (3) Jacksonian America

Focuses on the social and cultural history of the Jacksonian Era. Issues include the transformation of the market economy, slavery, moral reform, Indian removal, changes in ideas about men's and women's natures and roles, western expansion, and political culture. Prereq. for HIST 4235 is HIST 1015 or 1035. HIST 4235 and 5235 are the same course. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4315 (3) Civil War and Reconstruction

Describes the forces at work in the antebellum period that led to sectional warfare; social, economic, and political changes effected by the war; the American agony of reconstruction; and the long-range results of that difficult era. Prereq., HIST 1015 or 1035. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4415 (3) United States History, 1877--1917

Examines the social, economic, political, and cultural history of the United States from the end of Reconstruction to the eve of World War I. Topics include the struggles of labor and industry, race and immigration, western and environmental issues, city life and new technologies, feminism and Progressivism, and Indian wars and imperialism. Prereq., HIST 1015 or 1025. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4425 (3) United States History, 1917--1945

Examines U.S. history from World War I through World War II. Key themes include: warfare; the rise of the modern state; consumer culture; the shift from conservative politics to the New Deal liberalism; the women's movement; immigration restriction; segregation; the Great Migration, and civil rights; conflicts between secular modernism and religious fundamentalism; and new technologies such as the automobile. Prereq., HIST 1025. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4435 (3) United States History, 1945--1973

Examines the History of the United States during the Cold War, with an emphasis on social and cultural issues at home. Also addresses the economic and political evolution of the American people and the nation's role in world affairs. Prereq., HIST 1025. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or

Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4445 (3) United States History since 1973

Traces political, diplomatic, economic, and social developments in the United States from 1973 to the present. Prereq., HIST 1025. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-5205 (3) The Colonial Wars and the Coming of American Independence, 1739--1776

Prereq., graduate standing. Same as HIST 4205. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-5215 (3) The Revolutionary War and the Making of the American Republic, 1775--1801

Prereq., graduate standing. Same as HIST 4215.

College of Arts & Sciences | History | US: Chronological Periods

HIST-5235 (3) Jacksonian America

Focuses on the social and cultural history of the Jacksonian Era. Issues include the transformation of the market economy, slavery, moral reform, Indian removal, changes in ideas about men's and women's natures and roles, western expansion, and political culture. Prereq. for HIST 4235 is HIST 1015 or 1035. HIST 4235 and 5235 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-5845 (1-3) Independent Study

College of Arts & Sciences | History | US: Chronological Periods

HIST-6115 (3) Readings in American Colonial History

Prereq., graduate standing.

College of Arts & Sciences | History | US: Chronological Periods

HIST-7155 (3) Seminar: Early American History

College of Arts & Sciences | History | US: Chronological Periods

HIST-7415 (3) Graduate Seminar in Modern United States History

Introduces students to various research approaches and methods in modern U.S. historiography and requires them to produce a substantial and original research paper using both primary and secondary sources. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-7485 (3) Seminar: United States History, 1948-Present

College of Arts & Sciences | History | US: Chronological Periods

HIST-7845 (1-3) Independent Study.

College of Arts & Sciences | History | US: Chronological Periods

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HIST-1018 (3) Introduction to Early Latin American History to 1810

Introduces students to the history of what is now called Latin America from about 1450 to the wars of independence in the nineteenth century. The course examines pertinent aspects of the societies and cultures of indigenous people, the history of European conquest, and the most salient features of the Spanish and Portuguese colonial empires in America. Students who have taken HIST 1038 may not receive credit for either HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[World Areas: Specific Regions](#)

HIST-1028 (3) Introduction to Modern Latin American History since 1800

Introduces students to the history of Latin America from independence to the present. The course investigates the social implications of various models of economic development, the opportunities and difficulties resulting from economic ties with wealthier countries, the consequences of ethnic, gender and class divisions, and the struggles of Latin Americans to construct equitable political systems. Students who have taken HIST 1038 may not receive credit for HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[World Areas: Specific Regions](#)

HIST-1218 (3) Introduction to Sub-Saharan African History to 1800

Provides an introduction to African history, beginning with early man and ending in 1800. This course moves rapidly through civilizations as different as Ancient Egypt, Mali, Oyo, and the Cape Colony, touching on important developments and highlighting themes relevant to the history of Africa as a whole. These include migration, technology, environment, trade, gender, religion, slavery, and more. Formerly HIST 1208. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[World Areas: Specific Regions](#)

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1228 (3) Introduction to Sub-Saharan African History Since 1800

Introduces students to the history of Sub-Saharan Africa from 1800 to the present. Major topics of study included the trans-Atlantic slave trade, African state-building, European colonialism, African responses to colonialism and issues facing independent African nations, ranging from debt to HIV/AIDS. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1308 (3) Introduction to Middle Eastern History

Interdisciplinary course that focuses on medieval and modern history of the Middle East (A.D. 600 to the present). Introduces the Islamic civilization of the Middle East and the historical evolution of the region from the traditional into the modern eras. Covers social patterns, economic life, and intellectual trends, as well as political development. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1518 (3) Introduction to South Asian History to 1757

Introduces the history of South Asia, providing a general acquaintance with the narratives and interpretations of ancient and medieval history of the Indian subcontinent from the rise of the Indus Valley Civilization in 3500 BCE to the end of the Mughal Empire in 1757 CE. It is intended for students with little or no prior knowledge of the region. Credit not granted for this course and HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1528 (3) Introduction to South Asian History since 1757

Introduces the history of modern South Asia from 1757 to the present. Examines themes such as the nature of British colonial state formation in South Asia, social transformation under British rule, modes of anticolonial resistance movements, particularly Mahatma Gandhi's nonviolent civil disobedience movement, Muslim nationalism and the formation of Pakistan, and current political conflicts involving India, Pakistan and Afghanistan. Formerly HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1618 (3) Introduction to Chinese History to 1644

Introduces students to the history of China from Neolithic period to Ming period (1368-1644). Investigates the social patterns, gender relations, economic structure, intellectual trends, and political developments of China. Pays special attention to China's long-standing interaction with the rest of the world, which played a crucial role in the historical development of Chinese society. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1628 (3) Introduction to Modern Chinese History

Introduces students to modern Chinese history and culture, from the 17th century to the present. The course considers the pertinent aspects of modern China, focusing on its social patterns, economic structure, intellectual trends, and political developments. Similar to HIST 1608. Credit not granted for this course and HIST 1608. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1708 (3) Introduction to Japanese History

A broad interdisciplinary survey of the history of Japan from earliest times to the 20th century. Explores the development of political institutions, social structures, cultural and religious life, economic development, and foreign relations in an historical perspective. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1828 (3) Introduction to Jewish History since 1492

Surveys the major historical developments encountered by Jewish communities beginning with the Spanish Expulsion in 1492 up until the present day. We will study the various ways in which Jews across the modern world engaged with the emerging notions of nationality, equality, and citizenship, as well as with new ideologies such as liberalism, socialism, nationalism, imperialism and antisemitism. Same as JWST 1828. Formerly HIST 1108. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3018 (3) Seminar in Latin American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3218 (3) Peoples and Cultures of West Africa

Deals with the history and anthropology of selected west African societies in the period before the imposition of European colonial rule. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Same as ANTH 3218. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3328 (3) Seminar in Middle Eastern History

Examines selected issues in modern Middle Eastern history. Check with the department concerning the specific subject of the seminar. May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to junior/senior HIST majors.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3628 (3) Seminar in Recent Chinese History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3718 (3) Seminar in Japanese History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3848 (1-3) Independent Study

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4018 (3) Aztecs, Incas, and the Spanish Conquest of the Americas

Building upon contemporary texts and modern histories of both famous and ordinary people, this course examines the indigenous empires known as the Aztecs and the Incas. It also examines the encounter of Europeans and native people, following the history of exploration and conquest from the time of Columbus to about 1550. Equal consideration is given to the course's three components: Aztec, Inca and the Spanish conquest. Recommended prereqs., HIST 1018 or 3020.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4118 (3) History of Mexico to 1821

Studies Mexican history beginning with roots and evolution of pre-Columbian civilizations and concluding with the events of Mexican independence in 1821. Emphasizes society and culture of the Aztecs and Mayans, the Spanish conquest of Mexico, and the colonial regime of New Spain. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4128 (3) The Emergence of Modern Mexico

Study of Mexican history continues with the establishment of independence in 1821. Examines the upheavals of the Mexican Revolution and culminates with recent events in Mexico. Same as ETHN 4126 and HIST 5128. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4138 (3) Southwest Borderlands to 1900

Explores the history of the region that would become the American Southwest to 1900. Focusing on themes of novelty, conflict, and adaptation, class explores how changes in ecology, demography, economy, and technology transformed relations between native peoples, Spaniards, and Mexicans. Concludes with unit on causes, events, and consequences of the U.S.-Mexican War. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4218 (3) States and Societies of West Africa to 1900

Examines the history of West Africa from the earliest times to the 19th century. Prereq., junior standing.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4238 (3) History of Southern Africa

Examines the history of southern Africa from the earliest hunters, herders and farmers through to the present. One of the chief mediums of analysis is the novel. Short background readings and lectures cover southern Africa's history, and class discussions of novels are layered over these basics. Themes of study include: gender, migration, imperialism, religion, disease, resistance, race, ethnicity, and empire, among others. Prereq., HIST 1208. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4248 (3) Africa in the 19th Century

Juxtaposes an increasing process of indigenous state-building with increasing European presence. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4258 (3) Africa under European Colonial Rule

Focuses on the political, economic, and social dimensions of colonialism, as well as African nationalism and decolonization. Prereq., HIST 1208. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

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WMST-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as SOCY 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Womens Studies](#) | [Sociology](#)

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HIST-1018 (3) Introduction to Early Latin American History to 1810

Introduces students to the history of what is now called Latin America from about 1450 to the wars of independence in the nineteenth century. The course examines pertinent aspects of the societies and cultures of indigenous people, the history of European conquest, and the most salient features of the Spanish and Portuguese colonial empires in America. Students who have taken HIST 1038 may not receive credit for either HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

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ARAB-1020 (5) Beginning Arabic 2

Continuation of ARAB 1010. Prereq., ARAB 1010 (min grade C) or placement.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Arabic](#)

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CHIN-1020 (5) Beginning Chinese 2

Continuation of CHIN 1010. Prereq., CHIN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

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CLAS-1020 (3) Argument from Evidence: Critical Writing about the Ancient World

Introduces students to writing about the ancient world, with special attention to the possibilities and the limitations of ancient source-material. Taught as a writing workshop, with emphasis on critical thinking, analysis, argument and inquiry. While the course reads foundational ancient texts, the skills acquired will be broadly useful among humanities disciplines. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

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FREN-1020 (5) Beginning French 2

Continuation of FREN 1010. Completes the presentation of most basic structures and French vocabulary. Prereq., successful completion of one semester of college-level French or two years of high school French. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

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FRSI-1020 (5) Beginning Farsi II

Continuation of FRSI 1010. Completes the presentation of basic structures of Farsi. Continued acquisition of vocabulary and practice of speaking, listening, reading, and writing. Class conducted largely in Farsi. The second half of the course will introduce authentic texts of Persian prose literature. Some poetry may be included. Prereq., FRSI 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

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GEOL-1020 (3) Introduction to Earth History

Examines how Earth's interior and surface, the atmosphere and climate, the oceans, and life interact and have changed over the immensity of geologic time. For majors and non-majors. Separate lab (GEOL 1030) is optional. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1040. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Geological Sciences](#)

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GRMN-1020 (4) Beginning German 2

Prereq., GRMN 1010 (min grade of C-). Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

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HEBR-1020 (4) Beginning Hebrew 2

Second semester builds on Hebrew skills introduced in the first semester, with a focus on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms. The course blends a communicative method with formal grammatical instruction. By the end of this semester students are expected to be able to converse in, comprehend, and produce written basic Hebrew. Prereq., HEBR 1010 (min. grade C-) or instructor consent.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Hebrew](#)

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HIND-1020 (5) Beginning Hindi 2

Continuation of HIND 1010. Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading and writing skills. Proficiency-based course aims to place the student in the context of the native-speaking environment from the beginning of the course. Provides opportunities to participate in local South Asian cultural activities and events. Prereq., HIND 1010 (min. grade C) or instructor consent. Formerly HINDI 1020.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Hindi](#)

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HIST-1020 (3) Western Civilization 2: 16th Century to the Present

Surveys political, economic, social, and intellectual developments in European history from the 16th century to the present. Similarities and contrasts between European states are underscored, as is Europe's changing role in world history. Also available through correspondence study. Credit not granted for this course and HIST 1040. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [History](#) | [Methodo, Comparative, Global](#)

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HUMN-1020 (6) Introduction to Humanities 2

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Examines from Baroque to contemporary styles in literature, music, and visual arts. Emphasizes the cultural context in which art was created. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Humanities](#)

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INDO-1020 (5) Beginning Indonesian 2

Continuation of INDO1010. Provides a thorough introduction to the modern Indonesian language, emphasizing the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local Southeast Asian events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq., INDO 1010 (min. grade C).

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Indonesian](#)

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ITAL-1020 (5) Beginning Italian 2

Continuation of ITAL 1010, with more difficult grammatical concepts explored. The cultural focus shifts to social and civic areas. Prereq., ITAL 1010 (min grade C-).

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

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JPNS-1020 (5) Beginning Japanese 2

Continuation of JPNS 1010. Prereq., JPNS 1010 (min grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

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KREN-1020 (5) First-Year (Beginning) Korean 2

Continuation of KREN 1010. Prereq., KREN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Korean](#)

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NORW-1020 (4) Beginning Norwegian 2

Prereq., NORW 1010 with a grade of C- or better.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)

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SEWL-1020 (1-3) Topics-Social Sciences 1

College of Arts & Sciences | Sewall Residential Academic Program

SEWL-2000 (3) America, the Environment, and the Global Economy

Examines the debate over globalization and the global environmental crisis. Does increasing global economic development threaten to undermine the environment? What role should America play in the development of a sustainable economy? Credit not granted for this course and SOCY 1002. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Sewall Residential Academic Program

SEWL-2020 (1) Civic Engagement

Explores the concept of citizenship and develops students' leadership skills through discussions and service-learning. Working with Sewall faculty mentors, students discuss citizenship and related topics and learn concretely about aspects of the larger community by choosing a local community organization, becoming actively involved in its programs, and presenting their work at a culminating symposium. May be repeated up to 4 total credit hours.

College of Arts & Sciences | Sewall Residential Academic Program

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RUSS-1020 (4) Beginning Russian 2

Continuation of RUSS 1010. Prereq., RUSS 1010 (min grade of C-). Credit not granted for this course and RUSS 1050.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

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SEWL-1020 (1-3) Topics-Social Sciences 1

[College of Arts & Sciences](#) | [Sewall Residential Academic Program](#)

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SNSK-1020 (3-4) Introductory Sanskrit 2

Prereq., SNSK 1010.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

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SWED-1020 (4) Beginning Swedish 2

Prereq., SWED 1010 (min grade of C-).

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)

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TBTN-1020 (4) Beginning Colloquial Tibetan II

Provides a thorough introduction to colloquial forms of Tibetan. This course continues the development of vocabulary and grammar begun in Tibetan I and expands the range of conversation topics. While students focus on oral and aural skills, they begin to learn to read and write modern Tibetan to produce an overall knowledge of the language. Prereq., TBTN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

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YIDD-1020 (4) Beginning Yiddish 2

Continuation of YIDD 1010. Prereq., YIDD 1010 (min. grade C-) or placement.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Yiddish](#)

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CHEM-1021 (4) Introductory Chemistry

Lect. and lab. For students with no high school chemistry or a very weak chemistry background. Remedies a deficiency in natural science MAPS requirements and prepares students for CHEM 1113/1114. No credit given to chemistry or biochemistry majors for CHEM 1021 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., one year high school algebra or concurrent enrollment in MATH 1011. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Chemistry](#)

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Courses

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ETHN-1022 (3) Introduction to Africana Studies

Overview of Africana studies as a field of investigation, its origins, and history. Formerly ETHN 2002. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Ethnic Studies](#)
[Africana Studies](#)

ETHN-1023 (3) Introduction to American Indian Studies

Introduces critical terms, issues, and questions that inform the discipline of American Indian Studies. Examines "historical silences" and highlights how American Indian scholars, poets, and filmmakers use their work to address/redress historical subjects, and represent their Native communities. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Ethnic Studies](#)
[American Indian Studies](#)

ETHN-1025 (3) Introduction to Asian American Studies

Examines the various factors that define minority groups and their positions in American society using Asian Americans as a case study. Emphasizes the perspectives and methodologies of the discipline of ethnic studies. Formerly AAST 1015. Approved for arts and sciences core curriculum: contemporary societies or human diversity.

[College of Arts & Sciences](#)
[Ethnic Studies](#)
[Asian American Studies](#)

ETHN-1123 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ANTH 1120. Formerly AIST 1125. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-2001 (3) Foundations: Race and Ethnicity in the United States

Introduction to race, ethnicity and gender in the United States. Focuses on the five major racialized groups (African Americans, Asian Americans, Chicanas and Chicanos, European Americans and Indigenous peoples) in the U.S. The course design centers on historical and contemporary ideologies and systems that have constructed and continue to define, shape, and impact the significance of race and ethnicity in our economic, political and social lives. Formerly ETHN 2000.

College of Arts & Sciences | Ethnic Studies | Crosscultural/Comparative Study

ETHN-2004 (3) Themes in American Culture 1

Enables students to explore various themes in pre-1865 American culture. Examines these themes, which vary each year, in their social context. Formerly AMST 2000. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Ethnic Studies | American Studies

ETHN-2013 (3) Critical Issues in Native North America

Explores a series of issues including regulations of population, land and resource holdings, water rights, education, religious freedom, military obligations, the sociopolitical role of men and women, self-governance, and legal standing as these pertain to American Indian life. Formerly AIST 2015. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-2014 (3) Themes in American Culture 2

Enables students to explore various themes in post-1865 American culture. Examines these themes, which vary each year, in their social context. Formerly AMST 2010. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Ethnic Studies | American Studies

ETHN-2203 (3) American Indians in Film

Examines images of American Indians in films produced by, and about, Native peoples. Follows the creation of "the Hollywood Indian" from still-photography to contemporary motion pictures. Films are analyzed within historical, social, and artistic contexts, and examined in terms of the impact their images have exerted upon American society at large and Native communities in

particular. Formerly AIST 2201.

College of Arts & Sciences Ethnic Studies American Indian Studies

ETHN-2215 (3) The Japanese American Experience

Surveys the Japanese American experience, emphasizing post-WWII developments. Gives attention to intragroup diversity having to do with generation, ethnicity, ecology, and gender. Formerly AAST 2210. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies Asian American Studies

ETHN-2232 (3) Contemporary African American Social Movements

Examines selected case studies of African American collective behavior in a historical context. Emphasizes an in-depth investigation of the continuing African American struggle for social/democratic rights. Formerly BLST 2200. Approved for arts and sciences core curriculum: human diversity or contemporary societies.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2242 (3) African American Social and Political Thought

Introductory course designed to acquaint students with historical and contemporary thinking, writings, and speeches of African Americans. Formerly BLST 2210. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity or contemporary societies.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2432 (3) African American History

Surveys African American history. Studies, interprets and analyzes major problems, issues, and trends affecting African Americans from about 1600 to the present. Same as HIST 2437. Formerly BLST 2437. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2502 (2) African Dance

Explores the technique, style, and rhythms of various African, Caribbean, and dance forms of the Americas. Music, history, anthropology, and folklore help to enhance the dance and provide a cultural experience. May be repeated up to 6 total credit hours within a term. Same as DNCE 2501. Formerly BLST 2501.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2536 (3) Survey of Chicana/o History and Culture

Through historical and social scientific studies, novels, autobiographies, testimonies, films, music, and art, this course will provide students a survey of Chicana/o history and culture. Historical overviews of Chicana/o peoples from Mesoamerica; the Spanish Conquest; the historical presence of Chicana/o peoples in the Southwest; the rise of the Chicana/o student and community movements; immigration issues; and the gender, sexuality, and criminalization issues. Formerly CHST 2537. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences | Ethnic Studies | Chicana/o Studies

ETHN-2546 (3) Chicana and Chicano Fine Arts and Humanities

Provides foundation for study of Chicano literature, music, the plastic arts, theatre, and film. Also introduces aesthetic and critical concepts and their applications in Chicana and Chicano studies. Formerly ETHN 1036, CHST 1031. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Ethnic Studies | Chicana/o Studies

ETHN-2713 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ENGL 2717.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-2732 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ENGL 2737. Formerly BLST 2732.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-2746 (3) Chicana/Chicano and Mexican Literature

Introduces Chicana and Chicano and Mexican literary studies, focusing on narrative works by Chicana and Chicano writers. Examines diverse range of Mexican writing in Greater Mexico as it addresses recurring issues and themes, including language, race and class, questions of identity, and gender relations. Same as ENGL 2747.

College of Arts & Sciences | Ethnic Studies | Chicana/o Studies

ETHN-2761 (3) Survey of Post-Colonial Literature

Surveys the development of literatures in English in former British colonies. Topics include the spread and adaptation of English language literary forms in Asia, Africa, the Caribbean, and the far new world (Australia and New Zealand). Students learn the causes of the dispersion and the motivations for the clearly different uses of English literary forms in the ex-colonies. Same as ENGL 2767. Formerly ETHN 2762.

College of Arts & Sciences | Ethnic Studies | Crosscultural/Comparative Study

ETHN-3015 (3) Asian Pacific American Communities

Covers the concepts, methods, and theories commonly used in community research, as well as substantive information on selected Asian/Pacific American communities. Emphasizes the ethical/political dimensions of community studies. Prereq., ETHN 2001 or 1025. Formerly AAST 3013. Approved for arts and sciences core curriculum: United States context or contemporary societies.

College of Arts & Sciences | Ethnic Studies | Asian American Studies

ETHN-3026 (3) Women of Color: Chicanas in U.S. Society

Critically explores the Chicana experience and identity. Examines issues arising from the intersection of class, race, and gender. Focuses on controversies surrounding culture and gender through an analysis of feminism and feminismo. Prereq., ETHN 2001 or 2536 or equivalent.. Formerly CHST 3026.

College of Arts & Sciences | Ethnic Studies | Chicana/o Studies

ETHN-3101 (3) Selected Topics in Ethnic Studies

Intensive examination of a particular topic, theme, issue, or problem in ethnic studies as chosen by the instructor. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or equivalent. Formerly ETHN 3100.

College of Arts & Sciences | Ethnic Studies | Crosscultural/Comparative Study

ETHN-3102 (3) Selected Topics in African American Studies

Intensive examination of a particular topic, theme, issue, or problem concerning the African American presence, as chosen by the instructor. Sample offerings could include African American Pop Culture, the Civil Rights Movement, or other African American issues. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001, 2002 or equivalent. Formerly ETHN 3022

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-3103 (3) Selected Topics in American Indian Studies

Examines a particular topic, theme, issue, or problem in American Indian Studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2003 or equivalent. Formerly ETHN 3023.

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ETHN-1022 (3) Introduction to Africana Studies

Overview of Africana studies as a field of investigation, its origins, and history. Formerly ETHN 2002. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
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ETHN-2232 (3) Contemporary African American Social Movements

Examines selected case studies of African American collective behavior in a historical context. Emphasizes an in-depth investigation of the continuing African American struggle for social/democratic rights. Formerly BLST 2200. Approved for arts and sciences core curriculum: human diversity or contemporary societies.

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ETHN-2242 (3) African American Social and Political Thought

Introductory course designed to acquaint students with historical and contemporary thinking, writings, and speeches of African Americans. Formerly BLST 2210. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity or contemporary societies.

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ETHN-2432 (3) African American History

Surveys African American history. Studies, interprets and analyzes major problems, issues, and trends affecting African Americans from about 1600 to the present. Same as HIST 2437. Formerly BLST 2437. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-2502 (2) African Dance

Explores the technique, style, and rhythms of various African, Caribbean, and dance forms of the Americas. Music, history, anthropology, and folklore help to enhance the dance and provide a cultural experience. May be repeated up to 6 total credit hours within a term. Same as DNCE 2501. Formerly BLST 2501.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-2732 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ENGL 2737. Formerly BLST 2732.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-3102 (3) Selected Topics in African American Studies

Intensive examination of a particular topic, theme, issue, or problem concerning the African American presence, as chosen by the instructor. Sample offerings could include African American Pop Culture, the Civil Rights Movement, or other African American issues. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001, 2002 or equivalent. Formerly ETHN 3022

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-3212 (3) Introduction to Hip Hop Studies

Examines critical questions posed by hip hop culture. Accentuated in this course are hip hops contributions to the political-economic, philosophical, and sociological study of race, racism, sexism, and sexuality. This course examines the ways in which hip hop, as a new social phenomenon, cultural force and aesthetic form, have influenced contemporary American and global culture. Prereq., ETHN 2001 or 2002.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-3252 (3) African American Urban History

Fosters a better understanding and appreciation of the role African Americans have played in the evolution and shaping of urban America. Employs techniques of urban studies to more effectively assess the many dimensions, subtleties, and insensitivities of life in the city. Prereq., ETHN 2001 or 2002 or equivalent. Recommended prereq., a working knowledge of U.S. and Afro-American

history. Restricted to juniors/seniors. Formerly ETHN 4252.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-3502 (3) Historical and Contemporary Issues of African American Women

Explores the social, economic, political, historical, and cultural role of African American women from an interdisciplinary perspective. Special emphasis is placed on African American women's rich oral and literary tradition. Prereq., ETHN 2001, 2002, or WMST 2000 or equivalent. Same as WMST 3505. Formerly BLST 3505.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4102 (3) Special Topics in Africana Studies

Variable topic that allows intensive coverage of a subject, theme, or issue in African American studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2002 or equivalent. Restricted to juniors/seniors. ETHN 4102 and 5102 are the same course. Formerly ETHN 4652/5652. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4112 (3) African American Educational History

Examines the history of the education of African Americans from early American history until current times. Covers primary, secondary, and higher education. Topics include education of African Americans before 1800, education of African Americans during the period of American slavery, and factors affecting today's education gains. Also covers current research being conducted in higher education. Prereq., ETHN 2001, 2002 or equivalent. Formerly ETHN 3112.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4232 (3) The Life and Thought of Martin Luther King Jr

An intensive exploration and examination of the life and thought of the Rev. Dr. Martin Luther King Jr. Special emphasis on the stages of his life and their corresponding productions. Prereq., ETHN 2001 or 2002 or equivalent. Restricted to juniors/seniors. Formerly BLST 4235.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4272 (3) W.E.B. Du Bois Seminar

Analyzes the life and thought of W.E.B. Du Bois for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Du Bois's epistemology and research methodology, as well as his participation in radical political and social movements. Prereq., ETHN 2001 or 2002. Restricted to junior/senior ETHN majors/minors. ETHN 4272 and 5272 are the same course. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Ethnic Studies (ETHN) majors only.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4632 (3) Frantz Fanon Seminar

Analyzes the life and thought of Frantz Fanon for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Fanon's psychology, sociology and philosophical anthropology, as well as his participation in African and Caribbean anti-colonial movements. Prereq., ETHN 2001 or 2002. ETHN 4632 is restricted to junior/senior ETHN majors/minors. ETHN 4632 and 5632 are the same course. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Ethnic Studies (ETHN) majors only.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-4672 (3) Seminar on the Civil Rights and Black Power Movements

A review of the ideas, events, persons, organizations oriented to the quest for African American social justice in the decade of the sixties. Prereq., ETHN 2001 or 2002. Restricted to juniors/seniors or instructor consent. Formerly BLST 4670. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-4692 (3) Contemporary African American Literature 1

Advanced in-depth study of works of prominent African American novelists and poets. Prereq., ETHN 2001 or 2002. Restricted to juniors/seniors. Same as ENGL 4697. Formerly BLST 4692. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-5102 (3) Special Topics in Africana Studies

Variable topic that allows intensive coverage of a subject, theme, or issue in African American studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2002 or equivalent. Restricted to juniors/seniors. ETHN 4102 and 5102 are the same course. Formerly ETHN 4652/5652.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-5272 (3) W.E.B. Du Bois Seminar

Analyzes the life and thought of W.E.B. Du Bois for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Du Bois's epistemology and research methodology, as well as his participation in radical political and social movements. Prereq., ETHN 2001 or 2002. Restricted to junior/senior ETHN majors/minors. ETHN 4272 and 5272 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Ethnic Studies | Africana Studies

ETHN-5632 (3) Frantz Fanon Seminar

Analyzes the life and thought of Frantz Fanon for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Fanon's psychology, sociology and philosophical anthropology, as well as his participation in African and Caribbean anti-colonial movements. Prereq., ETHN 2001 or 2002. ETHN 4632 is

restricted to junior/senior ETHN majors/minors. ETHN 4632 and 5632 are the same course. Prerequisites: Restricted to Graduate Students only.

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ETHN-1023 (3) Introduction to American Indian Studies

Introduces critical terms, issues, and questions that inform the discipline of American Indian Studies. Examines "historical silences" and highlights how American Indian scholars, poets, and filmmakers use their work to address/redress historical subjects, and represent their Native communities. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-1123 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ANTH 1120. Formerly AIST 1125. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-2013 (3) Critical Issues in Native North America

Explores a series of issues including regulations of population, land and resource holdings, water rights, education, religious freedom, military obligations, the sociopolitical role of men and women, self-governance, and legal standing as these pertain to American Indian life. Formerly AIST 2015. Approved for arts and sciences core curriculum: human diversity or United States context.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-2203 (3) American Indians in Film

Examines images of American Indians in films produced by, and about, Native peoples. Follows the creation of "the Hollywood Indian" from still-photography to contemporary motion pictures. Films are analyzed within historical, social, and artistic contexts, and examined in terms of the impact their images have exerted upon American society at large and Native communities in particular. Formerly AIST 2201.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-2713 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ENGL 2717.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-3103 (3) Selected Topics in American Indian Studies

Examines a particular topic, theme, issue, or problem in American Indian Studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2003 or equivalent. Formerly ETHN 3023.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-3213 (3) American Indian Women

Explores the experiences, perspectives, and status of American Indian women in historical and contemporary contexts. Examines representations of Indigenous women in mainstream culture. Emphasizes the agency of American Indian women-their persistence, creativity, and activism, especially in maintaining Indigenous traditions. Prereq., WMST 2000, 2600 or ETHN 2001 or 2003. Same as WMSt 3210. Approved for arts and sciences core curriculum: human diversity. Formerly AIST 3210. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-3403 (3) Indigenous Rights and Red Power Movement

Deals with historical events involving conflicts between the U.S. government and American Indians. Examples include the role of the FBI in the Pine Ridge Sioux Reservation (1972--76) or the 1864 massacre of the Cheyenne and Arapaho Indians in Colorado territory. Additional courses may relate to tribal governments. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001, 2003, 2013. Restricted to juniors/seniors. Formerly AIST 3400.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-4553 (3) Indigenous Representations in the United States

Examines the relationship and negotiation of culture/status/place through representation(s) within and concerning Indigenous peoples/communities. Focuses on U.S. representational forms in popular experiences e.g., literature, film, media and the roots of those representations via legal and medical definitions. This investigation and analysis is supplemented with focus on gender as well as contextualization through global Indigenous portrayals. Recommended prereq., ETHN 2003 or 2013. ETHN 4553 and 5553 are the same course.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-4563 (3) North American Indian Acculturation

Comprehensive survey of changes in the native cultures of America north of Mexico caused by occupation of the continent of Old World populations, including a review of processes of contact, environmental changes, changes in major institutions, the nature of federal/state administration, the reservation system, and contemporary developments. Prereq., ETHN 2001 or 2003. Restricted to junior/senior ANTH or ETHN majors. Same as ANTH 4560. Formerly AIST 4565. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Ethnic Studies | American Indian Studies

ETHN-5553 (3) Indigenous Representations in the United States

Examines the relationship and negotiation of culture/status/place through representation(s) within and concerning Indigenous peoples/communities. Focuses on U.S. representational forms in popular experiences e.g., literature, film, media and the roots of those representations via legal and medical definitions. This investigation and analysis is supplemented with focus on gender as well as contextualization through global Indigenous portrayals. Recommended prereq., ETHN 2003 or 2013. ETHN 4553 and 5553 are the same course. Prerequisites: Restricted to Graduate Students only.

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MATH-1021 (2) Numerical and Analytical College Trigonometry

Covers trigonometric functions, identities, solutions of triangles, addition and multiple angle formulas, inverse and trigonometric functions, and laws of sines and cosines. Credit not granted for this course and MATH 1150, 1030 or 1040. Prereqs., MATH 1011 or 1020 or 1 1/2 years of high school algebra and 1 year of high school geometry.

[College of Arts & Sciences](#) | [Mathematics](#)

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ETHN-1022 (3) Introduction to Africana Studies

Overview of Africana studies as a field of investigation, its origins, and history. Formerly ETHN 2002. Approved for arts and sciences core curriculum: human diversity.

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CLAS-1023 (4) Beginning Classical Greek 2

Completes the presentation of grammar and introduces reading of literature. Prereq., CLAS 1013 or equivalent.

[College of Arts & Sciences](#) [Classics](#) [Greek](#)

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ETHN-1023 (3) Introduction to American Indian Studies

Introduces critical terms, issues, and questions that inform the discipline of American Indian Studies. Examines "historical silences" and highlights how American Indian scholars, poets, and filmmakers use their work to address/redress historical subjects, and represent their Native communities. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

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ETHN-1025 (3) Introduction to Asian American Studies

Examines the various factors that define minority groups and their positions in American society using Asian Americans as a case study. Emphasizes the perspectives and methodologies of the discipline of ethnic studies. Formerly AAST 1015. Approved for arts and sciences core curriculum: contemporary societies or human diversity.

[College of Arts & Sciences](#)
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ETHN-2215 (3) The Japanese American Experience

Surveys the Japanese American experience, emphasizing post-WWII developments. Gives attention to intragroup diversity having to do with generation, ethnicity, ecology, and gender. Formerly AAST 2210. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Ethnic Studies](#)
[Asian American Studies](#)

ETHN-3015 (3) Asian Pacific American Communities

Covers the concepts, methods, and theories commonly used in community research, as well as substantive information on selected Asian/Pacific American communities. Emphasizes the ethical/political dimensions of community studies. Prereq., ETHN 2001 or 1025. Formerly AAST 3013. Approved for arts and sciences core curriculum: United States context or contemporary societies.

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ETHN-3105 (3) Selected Topics in Asian American Studies

Intensive examination of a topic or issue affecting Asian Americans, such as the Japanese American internment during World War II, or Asian American social movements or community organizations. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 1025 or 2001. Formerly ETHN 3425, AAST 3420.

College of Arts & Sciences | Ethnic Studies | Asian American Studies

ETHN-3575 (3) Japanese American Internment: Critical Thinking in Sociocultural Diversity

Offers an historical overview of the Japanese American experience in the United States. Introduces and explores fundamental issues inherent in the study of human beings from the perspective of cultural social difference. Prereq., ETHN 1025 or 2001. Restricted to juniors/seniors. Formerly AAST 3670. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Ethnic Studies | Asian American Studies

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CLAS-1024 (4) Beginning Latin 2

Completes the presentation of grammar, incorporates review of fundamentals, and introduces reading of literature. For students with previous experience of Latin. Prereq., CLAS 1014 or equivalent.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

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ETHN-1025 (3) Introduction to Asian American Studies

Examines the various factors that define minority groups and their positions in American society using Asian Americans as a case study. Emphasizes the perspectives and methodologies of the discipline of ethnic studies. Formerly AAST 1015. Approved for arts and sciences core curriculum: contemporary societies or human diversity.

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HIST-1025 (3) History of the United States since 1865

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

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ANTH-1030 (3) Principles of Anthropology 1

Evolution of humanity and culture from beginnings through early metal ages. Covers human evolution, race, prehistory, and rise of early civilizations. This course is taught through Continuing Education. Meets MAPS requirements for social science: general.

College of Arts & Sciences | Anthropology

ANTH-1040 (3) Principles of Anthropology 2

Surveys the world's major culture areas. Covers components of culture, such as subsistence, social organization, religion, and language. This course is taught through Continuing Education. Meets MAPS requirement for social science: general.

College of Arts & Sciences | Anthropology

ANTH-1100 (3) Exploring a Non-Western Culture: The Tamils

Surveys the social and economic patterns, ideas and values, and aesthetic achievements of the Tamils, a Hindu people who live in South India and Sri Lanka. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1105 (3) Exploring a Non-Western Culture: Tibet

Introduction to Tibetan culture, history, religion, and society from an anthropological perspective, including traditional as well as contemporary dimensions. Topics will include Tibetan Buddhism, politics, nomadism, gender, refugee issues, and the global Tibetan diaspora, all framed within the larger methods and concepts of cultural anthropology. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1115 (3) The Caribbean in Post-Colonial Perspective

Introduces the student to the varied peoples and cultures in the Caribbean region, emphasizing the historical, colonial, and contemporary political-economic contexts of their social structure and cultural patterns. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1120 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ETHN 1123. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1135 (3) Exploring a Non-Western Culture: TBA

Examines the geography, kinship, politics and religious values of a particular non-Western people in historical and contemporary context through an anthropological perspective. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1140 (3) Exploring a Non-Western Culture: The Maya

Explores the culture of the Maya of Central America, emphasizing their material adaptations, social organizations, ideals and values, and artistic achievements in the past and the present. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1145 (3) Exploring a Non-Western Culture: The Aztecs

Explores the culture of the Aztec people of Central Mexico: their subsistence, society, religion, and achievements, as well as the impact of the Aztec empire in Mesoamerica. Also reviews the clash of a non-western society with the western world with the arrival of the Spanish conquistadors. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

College of Arts & Sciences | Anthropology

ANTH-1150 (3) Exploring a Non-Western Culture: Regional Cultures of Africa

Explores a small number of cultures in a specific sub-region of Africa from an integrated holistic viewpoint, emphasizing material adaptations, social patterns, ideas and values, and aesthetic achievements. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1160 (3) The Ancient Egyptian Civilization

Emphasizes the origin of the Egyptian culture, its importance, and its impact on other cultures. In addition, the different points of view of various scholars are discussed with a comparative study of the ancient Egyptian culture and modern culture of Egypt and the Middle East. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1170 (3) Exploring Culture and Gender through Film

Uses films and written texts to explore the concepts of culture and gender, as well as ethnicity and race. By looking at gender, ethnicity, and race cross-culturally, students will know how these concepts are constructed in their own society, as well as in others. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Anthropology

ANTH-1180 (3) Maritime People: Fishers and Seafarers

Explores important milestones in the development of human societies and cultures that live from the sea. Emphasizes the evolution of maritime adaptations associated with fishing and seafaring from more than 10,000 years ago through the present. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Anthropology

ANTH-1190 (3) Origins of Ancient Civilizations

Examines origins of the world's first civilizations in Mesopotamia, Egypt, the Indus Valley, Mesoamerica, and the Andes. Covers archaeology of ancient cities, trade, economy, politics, warfare, religion, and ideology. Seeks insights into general processes of cultural evolution. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Anthropology

ANTH-1200 (3) Culture and Power

Compares contemporary sociopolitical systems across cultures, from non-Western tribal groups to modern states. Introduces students to anthropological approaches for understanding and analyzing political forces, processes, and institutions that affect cultures such as colonialism, warfare, violence, ethnicity, migration, and globalization. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Anthropology

ANTH-2009 (3) Modern Issues, Ancient Times.

Considers issues of vital importance to humans, both now and in ancient times. Topics such as food, death, sex, family, literacy, or power are explored to consider how ancient societal norms and attitudes evolved, and how they relate to modern culture. Draws on material and literary evidence to develop an understanding of the complexities of ancient life. Same as CLAS 2009. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Anthropology

ANTH-2010 (3) Introduction to Physical Anthropology 1

Detailed consideration of human biology, the place of humans in the animal kingdom, primate ecology, and fossil evidence for human evolution. Credit not granted for this course and ANTH 2050. Required for ANTH majors. Approved for GT-SC1. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Anthropology

ANTH-2020 (3) Introduction to Physical Anthropology 2

Continuation of ANTH 2010. Emphasizes genetics, human variation, and microevolution. Prereq., ANTH 2010. Credit not granted for this course and ANTH 2060. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Anthropology

ANTH-2030 (1) Laboratory in Physical Anthropology 1

Lab in human osteology and musculoskeletal system emphasizing comparative primate morphology, adaptation, and the fossil record documenting the natural history of primates. Coreq., ANTH 2010. Approved for GT-SC1. Meets MAPS requirement for natural science: lab, when taken with ANTH 2010. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Anthropology

ANTH-2040 (1) Laboratory in Physical Anthropology 2

Experiments and hands-on exercises designed to enhance understanding of the principles and concepts presented in ANTH 2020. One two-hour class per week. Coreq., ANTH 2020.

Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Anthropology

ANTH-2070 (3) Bones, Bodies, and Disease

Studies the human skeleton and introduces techniques used to evaluate demographic variables. Applies techniques through evaluation of photographic images of an excellently preserved mummified skeletal population from ancient Nubia to reconstruct prehistoric patterns of adaptation and biocultural evolution. Offered through Continuing Education only. Recommended prereq., ANTH 2010.

College of Arts & Sciences | Anthropology

ANTH-2100 (3) Frontiers of Cultural Anthropology

Covers current theories in cultural anthropology and discusses the nature of field work. Explores major schools of thought and ethnographic fieldwork in a range of cultures studied by anthropologists. Required for ANTH majors.

College of Arts & Sciences | Anthropology

ANTH-2200 (3) Introduction to Archaeology

Discusses history, basic concepts, techniques, and theoretical construction of archaeological field and laboratory investigations, as well as a general outline of world prehistory. Required for ANTH majors.

College of Arts & Sciences | Anthropology

ANTH-2210 (1) Laboratory Course in Archaeological Methods

Studies analytical methods in archaeological research including those employed both in the field and in the laboratory. Deals with practical exercises illustrating many of the theoretical principles covered in ANTH 2200. Coreq., ANTH 2200.

College of Arts & Sciences | Anthropology

ANTH-3000 (3) Primate Behavior

Surveys naturalistic primate behavior. Emphasizes social behavior, behavioral ecology, and evolution as they lead to an understanding of human behavior. Restricted to students with 57-180 credits (Junior or Senior). Prereqs., ANTH 2010 or EBIO 1210. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of ANTH 2010 or EBIO 1210. Restricted to students with 57-180 credits (Junior or Senior).

College of Arts & Sciences | Anthropology

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HIST-1028 (3) Introduction to Modern Latin American History since 1800

Introduces students to the history of Latin America from independence to the present. The course investigates the social implications of various models of economic development, the opportunities and difficulties resulting from economic ties with wealthier countries, the consequences of ethnic, gender and class divisions, and the struggles of Latin Americans to construct equitable political systems. Students who have taken HIST 1038 may not receive credit for HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

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ANTH-1030 (3) Principles of Anthropology 1

Evolution of humanity and culture from beginnings through early metal ages. Covers human evolution, race, prehistory, and rise of early civilizations. This course is taught through Continuing Education. Meets MAPS requirements for social science: general.

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Courses

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EBIO-1030 (3) Biology: A Human Approach 1

Lect. Studies the principles of biology and their implications. Central theme is humans and the environment, emphasizing ecology, natural resource conservation, and the interrelatedness of a growing human population. Recommended for nonscience majors. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Ecology & Evolutionary Biology](#)

EBIO-1040 (3) Biology: A Human Approach 2

Lect. Continues EBIO 1030, focusing on the function of the human body, and maintenance of dynamic equilibrium in the internal environment in the face of a continually changing external environment. Discusses factors influencing these homeostatic conditions and how and why they change. Recommended for nonscience majors. Prereq., EBIO 1030. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Ecology & Evolutionary Biology](#)

EBIO-1050 (1) Biology: A Human Approach Laboratory

One two-hour lab per week. Provides experiments and exercises relating to concepts presented in EBIO 1030 and 1040. Biology: a Human Approach 1 and 2. This course uses animals and/or animal tissues. Recommended for nonscience majors. When taken with EBIO 1030, meets MAPS requirement for natural science: lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Ecology & Evolutionary Biology](#)

EBIO-1210 (3) General Biology 1

Lect. Provides a concentrated introduction to molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors. Credit not granted for this course and EPOB 2060,2660 or KAPH 2060. Approved for GT-SC1. Meets MAPS requirement for natural science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1220 (3) General Biology 2

Provides a concentrated introduction to organisms, homeostasis, development, behavior, and ecology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors. Prereq., EBIO 1210 or equivalent. Credit not granted for this course and EPOB 2050 or 2650. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1230 (1) General Biology Laboratory 1

One 3-hour lab per week. Consists of experiments and exercises to provide an extension of basic concepts and scientific approaches presented in General Biology 1. Intended for science majors. Prereq. or coreq., EBIO 1210. Credit not granted for this course and EPOB 2060, 2660 or KAPH 2060. Meets MAPS requirement for natural science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1240 (1) General Biology Laboratory 2

One 3-hour lab per week. Consists of experiments and exercises to provide an extension of basic concepts and scientific approaches presented in General Biology 2. Intended for science majors. Prereq. or coreq., EBIO 1220 or equivalent. Credit not granted for this course and EPOB 2050 or 2650. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1300 (1-3) Topics in Biological Sciences

Covers special topics in biology for freshmen or nonmajors. Introduces scientific methods and principles in biology, as well as issues of current interest in biology. Does not count toward the major in EBIO.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1840 (1-6) Independent Study (Freshman)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1950 (3) Introduction to Scientific and Academic Writing

Introduces students to academic writing and the associated discipline-specific conventions, styles, and qualities that are part of this type of writing. Classes lead students to think rhetorically, to understand the process of composing written text, to employ a variety of writing strategies, to conduct research, and to interpret, critique, summarize, and paraphrase scholarly texts. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2010 (1-3) Environmental Issues and Biology

Lect. Describes how the natural environment is currently stressed by a variety of human actions. Examines the nature of these environmental problems and their impact on living organisms, both human and nonhuman species.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2040 (4) Principles of Ecology

Lect. and lab. Introduces principles of ecology, emphasizing patterns and processes at various levels of biological organization. Scope global, but examples often from local environment. Laboratory emphasizes techniques of field biology. Uses animals and/or animal tissues. Prereqs., EBIO 1030, 1040, and 1050, or EBIO 1210, 1220, 1230, and 1240. Similar to ENVS 2000. Credit not granted for this course and EPOB 2050 or EPOB 2650 or EPOB 3020 or EBIO 2640 or ENVS 2000.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2070 (4) Genetics: Molecules to Populations

Lect. and rec. Covers principles of genetics and developmental biology at levels of molecules, cellular organelles, individuals, and populations; asexual and sexual life cycles; and heredity. Recitations allow discussion of genetics problems and implications of genetic principles, and provide demonstrations and simulations of genetic processes. Intended for sophomore majors in EBIO. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Credit not granted for this course and EBIO 2670.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2090 (3) Tropical Island and Marine Ecology

Examines fundamental concepts of marine ecology, emphasizing organismal diversity, species interactions, dispersal, colonization, physiology and adaptations. Includes study of beach and coral formation, island organisms and their population dynamics. Students may also register for an optional 1 credit, one week, tropical island and coral reef trip that complements the lecture portion of the class but has an additional cost. Recommended prereq., EBIO 1220.

College of Arts & Sciences Ecology & Evolutionary Biology

College of Arts & Sciences | Ecology & Evolutionary Biology

EBIO-2091 (1) Marine Ecology, Oceanography and Island Ecology Field Studies

A 1 credit, one week, tropical island and coral reef trip that complements the lecture portion of EBIO 2090 and ATOC 3070 with an additional cost. Examines fundamental concepts of marine ecology, emphasizing organismal diversity, species interactions, study of beach and coral formation, island formation, organisms and their population dynamics. Coreq., EBIO 2090 or ATOC/GEOL 3070. Recommended prereq., EBIO 1220.

College of Arts & Sciences | Ecology & Evolutionary Biology

EBIO-2590 (3) Plants and Society

Acquaints students with the plants that are both essential and desirable to human survival, well-being, and quality of life. Topics include plants and world cultures, food plants, commercial products (beverages, extracts, herbs, and spices, etc.), cosmetics, textiles, wood products, medicinal plants, psychoactive plants, poisonous plants, plants used in horticulture and landscape architecture, wood products, musical instruments, etc.

College of Arts & Sciences | Ecology & Evolutionary Biology

EBIO-2640 (5) Honors Principles of Ecology

Lect., lab, and rec. Introduces principles of ecology, emphasizing patterns and processes at various levels of biological organization. Scope global, but examples often from local environment. Lab emphasizes techniques of field biology. Uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240; or 1030, 1040, and 1050. Credit not granted for this course and EPOB 2050 or 2650 or 3020 or EBIO 2040.

College of Arts & Sciences | Ecology & Evolutionary Biology

EBIO-2840 (1-6) Independent Study (Sophomore)

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Ecology & Evolutionary Biology

EBIO-3010 (1-2) Teaching Biology

Provides an opportunity to assist in teaching of specific laboratory section in EBIO under direct faculty supervision. Students must make arrangements with the faculty member responsible for the course in which they plan to assist. May be repeated up to 4 total credit hours. Formerly EPOB 3010.

College of Arts & Sciences | Ecology & Evolutionary Biology

EBIO-3040 (4) Conservation Biology

Applies principles of population ecology, population genetics, biogeography, animal behavior, and paleobiology to the maintenance of biodiversity and natural systems. The resulting theory is then applied to conservation policy and management techniques. Prereq., EBIO 2040 or 2640. Same as ENVS 3040.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3080 (4) Evolutionary Biology

Lect. and lab. Emphasizes the fundamental evolutionary concepts that provide explanations for the diversification of life on Earth. Specific topics include the evidence for evolution, adaptation by natural selection, speciation, systematics, molecular and genome evolution, and macroevolutionary patterns and processes. Recitations allow students to explore specific topics in more depth and smaller groups. Prereq., EBIO 1210 and 1220 or equivalent. Credit not granted for this course and EBIO 3680 or EPOB 2080 or 2680.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3110 (3) Population and Community Ecology

Presents principles of ecology that relate to the niche, population growth, metapopulations, population interactions (within and between trophic levels), community structure and development, landscape ecology and species diversity. Prereq., EBIO 2040 or 2640 or equivalent.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3170 (3-4) Arctic and Alpine Ecology

Lect. and field trips. Focuses on the biology of arctic and alpine environments, limiting physical factors (such as geomorphology and climatic history), and human interaction with cold-stressed environments, especially the arctic. Prereqs., EBIO 1210 and 1220, or EPOB 2050 and 2060.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3175 (1) Arctic and Alpine Ecology Lab

Examines alpine ecosystems and treeline relative to global change. Weekend (one-day) field trips into the Rocky Mountains, visits to Denver Museum of Nature and Science, and to CU herbarium/plant lab for experiential learning connected to EBIO 3170. Coreq., EBIO 3170. Formerly EPOB 3175. Pass/fail only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3180 (3) Global Ecology

Lect. Involves study of ecological principles and problems at the biosphere level. Presents a worldwide approach to populations, biotic resources, ecologic interactions, land use, deforestation,

desertification, species extinctions, pollution, environmental quality, global change, and environmental ethics. Prereqs., EBIO 1210 and 1220 or equivalent. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Ecology & Evolutionary Biology

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CLAS-1030 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. No Greek or Latin required. Same as PHIL 1010. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

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EBIO-1030 (3) Biology: A Human Approach 1

Lect. Studies the principles of biology and their implications. Central theme is humans and the environment, emphasizing ecology, natural resource conservation, and the interrelatedness of a growing human population. Recommended for nonscience majors. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

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GEOL-1030 (1) Introduction to Geology Laboratory 1

Features field trips to local points of geologic interest. Studies rocks and topographic and geologic maps. Prior or current registration in 1000-level geology recommended. Approved for GT-SC1. Meets MAPS requirements for natural science lab, if taken with GEOL 1010. Approved for arts and sciences core curriculum: natural science. Formerly GEOL 1080.

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GRMN-1030 (5) Intensive Beginning German

Covers the same material as GRMN 1010 and GRMN 1020 in one course. Focuses on acquiring ability to understand and speak everyday German; on developing reading and writing skills; and on learning about the cultures of the German-speaking countries. Credit not granted for this course and GRMN 1010 and GRMN 1020.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

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HEBR-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as JWST 1030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Hebrew](#)

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JWST-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as HEBR 1030.

[College of Arts & Sciences](#)
[Jewish Studies](#)

JWST-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

[College of Arts & Sciences](#)
[Jewish Studies](#)

JWST-1818 (3) Introduction to Jewish History, Bible to 1492

Study the origins of a group of people who call themselves, and whom others call, Jews. Focus on place, movement, power/powerlessness, gender, and the question of how to define Jews over time and place. Introduces Jews as a group of people bound together by a particular set of laws; looks at their dispersion and diversity; explores Jews' interactions with surrounding cultures and societies; introduces the basic library of Jews; sees how Jews relate to political power. Same as HIST 1818.

[College of Arts & Sciences](#)
[Jewish Studies](#)

JWST-1828 (3) Introduction to Jewish History since 1492

Surveys the major historical developments encountered by Jewish communities beginning with the Spanish Expulsion in 1492 up until the present day. We will study the various ways in which Jews across the modern world engaged with the emerging notions of nationality, equality, and citizenship, as well as with new ideologies such as liberalism, socialism, nationalism, imperialism and antisemitism. Same as HIST 1828. Formerly JWST 1108. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Jewish Studies

JWST-2350 (3) Introduction to Jewish Culture

Explores the development and expressions of Jewish culture as it moves across the chronological and geographical map of the historic Jewish people, with an emphasis on the variety of Jewish ethnicities and their cultural productions, cultural syncretism, and changes. Sets the discussion in a historical context, and looks at cultural representations that include literary, religious, and visual texts. Taught in English. Same as HEBR 2350. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Jewish Studies

JWST-2502 (3) Representing the Holocaust

Examines how the memory of the Holocaust in Nazi Germany is increasingly determined by the means of its representation, e.g., film, autobiography, poetry, architecture. Same as GRMN 2502. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Jewish Studies

JWST-2551 (3) Jewish Literature: Jews Coming of Age

Study the work of Jewish writers in English and English translation. Looks at a broad spectrum of texts which show the various ways Jewish authors and poets across time and space have understood the world. Themes will include questions of secularity and tradition, diaspora, exile and citizenship, and the changes of modernity (social and political emancipation, world-wide wars, cultural transformation, new homelands). HEBR 2551 and JWST 2551 are identical courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Jewish Studies

JWST-2600 (3) Judaism, Christianity, and Islam

Introduces literature, beliefs, practices, and institutions of Judaism, Christianity, and Islam, in historical perspective. Same as RLST 2600. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Jewish Studies

JWST-3100 (3) Judaism

Explores Jewish religious experience and its expression in thought, ritual, ethics, and social institutions. Same as RLST 3100. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Jewish Studies

JWST-3200 (3) Religion and Feminist Thought

Examines the origin of patriarchal culture in the theology and practices of Judaism and Christianity. Explores attitudes and beliefs concerning women as Judeo-Christian culture impacts gender roles and gender stratification through reading and discussion. Women's religious experience is studied from the perspective of feminist interpretations of religiosity. Prereq., WMST 2000 or WMST/RLST 2800. WMST 3200 and JWST 3200 are the same course.

College of Arts & Sciences | Jewish Studies

JWST-3202 (3) Women, Gender & Sexuality in Jewish Texts & Traditions

Reads some of the ways Jewish texts and traditions look at women, gender and sexuality from biblical times to the present. Starts with an analysis of the positioning of the body, matter and gender in creation stories, moves on to the gendered aspects of tales of rescue and sacrifice, biblical tales of sexual subversion and power, taboo-breaking and ethnos building, to rabbinic attitudes towards women, sexuality and gender and contemporary renderings and rereadings of the earlier texts and traditions. Same as HEBR 3202. Approved for arts and sciences core curriculum: Human Diversity.

College of Arts & Sciences | Jewish Studies

JWST-3312 (3) The Bible as Literature

Surveys literary achievements of the Judeo-Christian tradition as represented by the Bible. Same as ENGL 3312. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Jewish Studies

JWST-3401 (3) The Heart of Europe: Filmmakers and Writers in 20th Century Central Europe

Surveys the major works of 20th century central and central eastern European film and literature. Examines cultural production in the non-imperial countries and non-national languages of the region including Yiddish, Belarusian, Czech, Hungarian, Polish and Romanian, among others. Traces the rise of nationalism over the course of the century from the age of empires through the "Cold War." Same as GSSL 3401.

College of Arts & Sciences | Jewish Studies

JWST-3501 (3) German-Jewish Writers: From the Enlightenment to the Present.

Provides insight into the German-Jewish identity through essays, autobiographies, fiction, and journalism from the Enlightenment to the post-Holocaust period. Examines the religious and social conflicts that typify the history of Jewish existence in German-speaking lands during the modern epoch. Same as GRMN 3501. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Jewish Studies

JWST-3600 (3) Global Secular Jewish Societies

This course uses a transnational lens to explore contemporary debates about Jewish people, places, and practices of identity and community. Drawing on history, sociology, international studies, and anthropology, we'll think about the places that Jewish people have called 'home,' and what has made, or continues to make those places 'Jewish.' We'll also explore diverse practices that express the extraordinary varieties of Jewishness (such as building synagogues, food markets, and coffeehouses, creating film festivals, going on heritage travel, Israeli-Jewish backpacking, the creation of online websites and blogs, and creating new urban kibbutzim). Restricted to students with minimum 57 units completed. JWST 3600 and IAFS 3600 are the same course.

Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Jewish Studies

JWST-3610 (3) Topics in International Affairs and Jewish Studies

Explores topics in international affairs as it relates to Jewish culture and society. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. IAFS 3610 and JWST 3610 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Jewish Studies

JWST-3650 (3) History of Arab-Israeli Conflict

Explores the origins and development of the Arab-Israeli conflict. Traces Arab-Jewish/Israeli relations from the nineteenth century through the Palestine Mandate, the evolution of Arab and Jewish nationalism, and the creation of Israel to the present day. Recommended prereqs., HIST 1308; HIST/JWST 1828. Same as IAFS 3650. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Jewish Studies

JWST-3677 (3) Jewish-American Literature

Explores the Jewish-American experience from the 19th century to the present through writers such as Sholom Aleichem, Peretz, babel, Singer, Malamud, Miller, Ginsberg, and Ozick. The Jewish experience ranges from the travails of immigration to the loss of identity through assimilation. Same as ENGL 3677. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences | Jewish Studies

JWST-3930 (3) Internship in Jewish Studies

Learn beyond the classroom by interning in a local non-profit organization that connects with the Program in Jewish Studies through its mission and/or program. Interns will be supervised by the faculty member of record as well as the employer housing the intern. Prereqs., HIST/JWST 1108 or HEBR/JWST 2350. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Jewish Studies

JWST-4000 (1-3) Capstone in Jewish Studies

Serves as the final product for students completing the major in Jewish Studies. The capstone asks students to design a project under the supervision of a mentor that serves as the summation of their past work in Jewish Studies. Capstone projects can take the form of a thesis, film, or other medium and must engage the student's second language. Restricted to senior Jewish Studies (JWST) majors only. Prerequisites: Restricted to senior Jewish Studies (JWST) majors only.

College of Arts & Sciences | Jewish Studies

JWST-4050 (3) Anthropology of Jews and Judaism

Explores topics in Jewish anthropology. Course will use the lens of anthropological inquiry to explore, discover and analyze different concepts within Jewish culture. Topics explored will include customs, religious practices, languages, ethnic and regional subdivisions, occupations, social composition, and folklore. Courses will explore fundamental questions about the definition of Jewish identity, practices and communities. May be repeated up to 9 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). ANTH 4050 and JWST 4050 are the same course.

College of Arts & Sciences | Jewish Studies

JWST-4101 (3) Topics in Hebrew Studies

Explores topics in Hebrew and Jewish literature and cultures. These may include topics such as diasporic literatures, Jewish artists and thinkers, courses on specific authors, figures or communities. Topics change each semester. May be repeated up to 9 total credit hours. Taught in English. HEBR 4101 and JWST 4101 are the same course.

College of Arts & Sciences | Jewish Studies

JWST-4203 (3) Israeli Literature: Exile, Nation, Home

Examines the creation and development of Israeli literature from its pre-State beginnings to the present day, from the writings of immigrants for whom Hebrew was not their mother tongue to a literature written by native Hebrew speakers. Considers texts written by Israeli Jewish and Arab writers and explores how ideas of exile, nation, and home play into the Israeli experience. Recommended prereqs., ENGL/JWST 3677, GRMN/JWST 2502; GRMN/JWST 3503; HEBR/JWST 2551; WRTG/JWST 3020. Same as HEBR 4203. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Jewish Studies

JWST-4260 (3) Topics in Judaism

Examines in depth central themes, schools of thought, and movements in Judaism across a range of historical periods. May be repeated up to 9 total credit hours as topics change. Recommended prereqs., 6 hours of RLST courses at any level including RLST/JWST 3100, RLST/JWST 2600, HIST/JWST 1108 or HEBR/JWST 2350 or instructor consent. RLST 4260, JWST 4260, and 5260 are the same course.

College of Arts & Sciences | Jewish Studies

JWST-4301 (3) Venice: the Cradle of European Jewish Culture.

Explores the development of European Jewish culture from the late Middle Ages to the present by focusing on Jewish life in the city of Venice, Italy. Emphasis is on the development of Venetian print culture and emergence of Italy as a center of Jewish publishing in both the religious and secular world. The course examines a variety of cultural and historical material including early printings of the Talmud, the creation of Yiddish popular literature, Hebrew rabbinic literature, responses to political turmoil, and the aftermath of the Nazi genocide. Taught in English. Prereq., HEBR/JWST 2350. HEBR 4301 and JWST 4301 are the same course. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Jewish Studies

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MCDB-1030 (3) Plagues, People, and Microorganisms

Discusses the biology, history, ecology, and social impact of human plagues, including Aids, smallpox, polio, bubonic plague, tuberculosis, leprosy, the impact of the Irish potato blight, and emerging human pathogens. The biology of pathogens and the human immune responses are treated in detail. Discusses the impact of molecular biology on curtailing the impact of diseases. For nonmajors. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

MCDB-1041 (3) Fundamentals of Human Genetics

Covers the basic principles of genetics, human pedigree analysis, and how genetic diseases affect DNA, RNA, and proteins. Considers implications of this research for medicine and society. For nonmajors. Recommended prereq., good background in high school chemistry and biology. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

MCDB-1150 (3) Introduction to Cellular and Molecular Biology

Covers biologically important macromolecules and biological processes, together with an introduction to cell structure, function, and physiology. Provides the foundation for advanced MCDB courses to majors, and a rigorous overview of modern biology to nonmajors. MCDB 1151 must be taken concurrently by MCDB and biochemistry majors and prehealth science students. Prereq., high school chemistry and algebra. Coreq., MCDB 1151 for majors. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and science core curriculum: natural science.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

MCDB-1151 (1) Introduction to Cell and Molecular Biology Lab

Offers one two-hour lab per week designed to acquaint students with research techniques and concepts in molecular and cellular biology. Topics include cell structure, function, physiology, and recombinant DNA. MCDB 1150 must be taken concurrently. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-1152 (1) Problem Solving Co-Seminar for Introduction to Molecular and Cellular Biology

Uses problem solving and other interactive group work to aid student learning in co-requisite course MCDB 1150. Students will work in small groups on learning and practicing how to solve difficult conceptual problems, as well as using hands-on activities and concept mapping to help learn content. Coreq., MCDB 1150.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-1161 (2) From Dirt to DNA: Phage Genomics Laboratory I

Provides laboratory experience working on a bacteriophage genomics research project. Students will study novel bacteriophage they isolate from the environment. Topics covered include phage biology, bacteria and phage culturing and amplification, DNA isolation, restriction digest analysis, agarose gel electrophoresis, and electron microscopy. Coreq., MCDB 1150 or successful completion of 2 semesters of General Biology AP credit.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-2150 (3) Principles of Genetics

Introduces the behavior of genes and chromosomes in eukaryotic and prokaryotic organisms. Covers three areas: transmission genetics, molecular genetics, and population genetics. Attention is given to genetic mapping, recombinant DNA procedures, and gene expression. MCDB 2151 must be taken by MCDB or biochemistry majors and prehealth science students concurrently or when next offered. Prereqs., MCDB 1150 or 1111 or EBIO 1210 or general biology. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-2151 (1) Principles of Genetics Laboratory

One two-hour lab per week. Provides hands-on experience with principles introduced in MCDB 2150. Topics include mitosis, meiosis, classical genetics, complementation, mutagenesis, DNA replication, natural selection, and evolution. Prereqs., MCDB 1150 and 1151. Coreq., MCDB 2150. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-2152 (1) Problem Solving Co-Seminars for Genetics

Uses problem solving and other interactive group work to aid student learning in co-requisite course MCDB 2150. Students will work in small groups on learning and practicing how to solve difficult conceptual problems, as well as using hands-on activities and concept mapping to help learn content. Coreq., MCDB 2150.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-2161 (2) From DNA to Genes, Phage Genomics Laboratory II

Provides laboratory experience working on a bacteriophage isolated during the previous semester. Topics include bioinformatics, genome annotation, open reading frame and RNA identification, BLAST analysis, phylogenetics and submission to a genomic database. Prereqs., MCDB 1150 and 1161. Coreq., MCDB 2150.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-2840 (1-3) Lower-Division Independent Study

May be repeated for credit, but only 8 hours of MCDB 2840 plus MCDB 4840 can be counted toward graduation. Students with adequate prerequisites should take MCDB 4840. Prereqs., instructor consent and independent study contract. Coreq., MCDB 1150.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3135 (3) Molecular Cell Biology I

Examines the central dogma of biology by discussing the most important molecules in cells (DNA, RNA, and protein) and how their synthesis (DNA replication, transcription, RNA processing, and translation) is regulated. Incorporated into the discussion is how recombinant DNA techniques are used to discover and dissect cellular processes, how to design and interpret experiments, and understanding the limits of experiments to draw conclusions. These principles are the foundation for subsequent examination of intracellular mechanisms in MCDB 3145. Prereqs., MCDB 2150 or EBIO 2070. Prereq., or coreq., CHEM 1133. Recommended coreq., MCDB 3140. Credit not granted for this course and MCDB 3120.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3140 (2) Cell Biology Laboratory

One four-hour lab per week. Provides experience with and exposure to modern cell biology laboratory techniques. Topics include microscopy, immunocytochemistry, Western blotting, Southern blotting, and flow cytometry. This course does not use vertebrate animals. Coreq., MCDB 3135 or 3145.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3145 (3) Molecular Cell Biology II

Examines intracellular mechanisms, including transport of ions and small molecules across membranes; protein targeting to organelles; membrane trafficking between organelles; signal

transduction; the cytoskeleton; and the cell cycle. Analysis of these activities is from the experimental perspective established in MCDB 3135. Prereq., MCDB 3135. Recommended prereq or coreq., MCDB 3140 concurrent with either 3135 or 3145. Students may not receive credit for MCDB 3145 and 3500.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3150 (3) Biology of the Cancer Cell

Highlights dimensions of the cancer problem; cancer as a genetic/cellular disease; chemicals, viruses, and radiation as causes of cancer; cancer and diet; cancer epidemiology; cancer risk factors; proto-oncogenes, oncogenes, and cancer suppressor genes; and prevention of cancer. Prereq., MCDB 2150 or EBIO 2070, or instructor consent. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3280 (3) Molecular Cell Physiology

Analyzes cellular mechanisms from a molecular perspective. Examines molecules as machines that are the basis of cellular mechanisms. Uses animal systems' physiology as examples. Prereqs., MCDB 3120 and CHEM 1133.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3330 (3) Evolution and Creationism

Intensive lecture/discussion course on the interrelationships among science, religion, and social policy. Includes historical and scientific development of evolution theory, social Darwinism/sociobiology, and the public perception of science. Prereq., MCDB 1111 or 1150 or instructor consent. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3350 (3) Fertility, Sterility, and Early Mammalian Development

Describes the production of germ cells, ovulation, fertilization, reproductive cycles, controls of reproduction, early development of the embryo, methods of contraception, and causes and treatments of sterility. Recommended for students planning careers in the health sciences. Prereq., MCDB 1150, EBIO 1210, or instructor consent.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-3650 (3) The Brain - From Molecules to Behavior

Examines the molecular basis of the brain's role in thought, action, and consciousness by exploring issues such as relationship of cognition and localized brain function, sensory systems and their role in cognition, learning and memory, and behavioral neurochemistry. Prereq., MCDB 1150 and 2150 or equivalent.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-4111 (3) Experimental Design and Research in Cell and Molecular Biology

Learning molecular and cell biology experimental design and approaches through independent research projects. Students, working in pairs, will explore the research process and gain extensive first-hand experience in: hypothesis formation; experimental design; solution preparation and experimental methodology; proposal presentation and defense (oral and written); formal presentation of results and conclusions (oral and written in a publication-style format); the publication process; critical reading and evaluation of primary scientific literature. Prereq., MCDB 1150 or equivalent and instructor consent. Recommended coreq., MCDB 3135 or 3500.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-4201 (3) From Bench to Bedside: The Role of Science in Medicine

Demonstrates the breadth of research in the life sciences and how such research (not just in medical schools) can lead to medical applications. Lecturers from life sciences, the medical school and biotechnology, discuss drug development and the transfer of research into the clinical arena. Students also prepare a paper and presentation on the development of a commercial drug. Prereqs., MCDB 1150, 1151, or 1111, and MCDB 2150, 2151, 3140, and 3120 or 3145.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-4202 (3) The Python Project

Studies how python hearts grow after they consume a meal. Understanding the molecular processes of growth and regression in the python heart could lead to development of therapeutics for heart disease. Students work in groups in the laboratory and generate novel data by using modern molecular biology and bioinformatic techniques to clone and sequence candidate molecules of the python genome. May be repeated once. Prereqs., MCDB 1150 and 2150. Recommended prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145, and CHEM 4711 and 4731.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-4234 (3) Research Methods

Presents a rigorous and pedagogically coherent introduction into the experimental process used to collect data, formulate hypotheses, and answer scientific questions in general, and biological questions in particular. Includes a detailed consideration of the elements of experimental design, data collection and analysis, and the interpretation of results in the context of effective science teaching. Part of the CU Teach course sequence for teacher certification in science and mathematics. Prereqs., completion of freshman/sophomore major requirements, MCDB 1150 or 1111, MCDB 2150, 3120/3140, or 3135/3145, or instructor consent. Restricted to students enrolled in School of Education. Prerequisites: Restricted to MCDB majors or School of Education undergraduate students only.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-4300 (3) Immunology

Emphasizes cellular and molecular mechanisms by which organisms protect themselves from pathogens and the experimental basis for our understanding of these processes. Discusses development, function, and malfunction of t-cells, b-cells and other components of the immune system, focusing on the human immune system. Prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145. Same as MCDB 5301.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

MCDB-4310 (3) Microbial Genetics and Physiology

Examines the physiology and genetics of bacteria, Archaea and viruses. Particular emphasis will be on metabolism, regulation of gene expression and protein function, mechanisms of interactions with and manipulation of the environment, and evolution in response to environmental pressures. Prereqs., MCDB 2150, 3135 and 3145 or instructor consent. Recommended prereq. or coreq., CHEM 4611. Same as MCDB 5310.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

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JWST-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as HEBR 1030.

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MCDB-1030 (3) Plagues, People, and Microorganisms

Discusses the biology, history, ecology, and social impact of human plagues, including Aids, smallpox, polio, bubonic plague, tuberculosis, leprosy, the impact of the Irish potato blight, and emerging human pathogens. The biology of pathogens and the human immune responses are treated in detail. Discusses the impact of molecular biology on curtailing the impact of diseases. For nonmajors. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

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CHEM-1031 (4) Environmental Chemistry 2

Lect. and lab. Applications of chemical principles to current environmental issues including acid rain, stratospheric ozone depletion, the Antarctic ozone hole, solar energy conversion and fuel cells, and the environmental consequences of nuclear war. Laboratory experience is included. No credit given to chemistry or biochemistry majors for 1031 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., CHEM 1011 with a grade of C- or higher. Approved for arts and sciences core curriculum: natural science.

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ANTH-1040 (3) Principles of Anthropology 2

Surveys the world's major culture areas. Covers components of culture, such as subsistence, social organization, religion, and language. This course is taught through Continuing Education. Meets MAPS requirement for social science: general.

[College of Arts & Sciences](#) | [Anthropology](#)

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EBIO-1040 (3) Biology: A Human Approach 2

Lect. Continues EBIO 1030, focusing on the function of the human body, and maintenance of dynamic equilibrium in the internal environment in the face of a continually changing external environment. Discusses factors influencing these homeostatic conditions and how and why they change. Recommended for nonscience majors. Prereq., EBIO 1030. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Ecology & Evolutionary Biology](#)

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GEOL-1040 (3) Geology of Colorado

Reviews the geologic evolution and history of Colorado. It first develops the basic concepts needed to interpret the geology, and then systematically shows how the state evolved through geologic time. The course is designed for those who enjoy understanding the beauty and splendor of the state. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1020. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Geological Sciences](#)

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HEBR-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

[College of Arts & Sciences](#) | [Germanic & Slavic Languages & Literature](#) | [Hebrew](#)

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JWST-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

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MCDB-1041 (3) Fundamentals of Human Genetics

Covers the basic principles of genetics, human pedigree analysis, and how genetic diseases affect DNA, RNA, and proteins. Considers implications of this research for medicine and society. For nonmajors. Recommended prereq., good background in high school chemistry and biology. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

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ATOC-1050 (3) Weather and the Atmosphere

Introduces principles of modern meteorology for nonscience majors, with emphasis on scientific and human issues associated with severe weather events. Includes description, methods of prediction, and impacts of blizzards, hurricanes, thunderstorms, tornadoes, lightning, floods, and firestorms. Approved for GT-SC1. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Atmospheric & Oceanic Sciences](#)

ATOC-1060 (3) Our Changing Environment: El Nino, Ozone, and Climate

Discusses the Earth's climate for nonscience majors, focusing on the role of the atmosphere, oceans, and land surface. Describes the water cycle, atmospheric circulations, and ocean currents, and how they influence global climate, El Nino, and the ozone hole. Discusses human impacts from climate change. Prereq., ATOC 1050. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Atmospheric & Oceanic Sciences](#)

ATOC-1070 (1) Weather and the Atmosphere Laboratory

Optional laboratory for ATOC 1050. Laboratory experiments illustrate fundamentals of meteorology. Covers collection, analysis, and discussion of data related to local weather. Uses computers for retrieval and interpretation of weather data from Colorado and across the U.S. Prereq. or coreq., ATOC 1050 or instructor consent. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Atmospheric & Oceanic Sciences](#)

ATOC-3070 (3) Introduction to Oceanography

Investigates the broad-scale features and dynamics of the Earth's oceans. The course is roughly divided amongst the four major, interrelated disciplines of oceanography: marine geology, marine chemistry, physical oceanography (i.e. circulation), and marine biology. Specific topics include sea floor spreading, marine sediments, salinity, biogeochemical cycles, currents, waves, tides, primary production, marine ecology, marine resources, global warming, and much more. Prereq., any two-course sequence of natural science courses. Same as GEOL 3070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-3300 (3) Analysis of Climate and Weather Observations

Discusses instruments, techniques, and statistical methods used in atmospheric observations. Covers issues of data accuracy and analysis of weather maps. Provides application to temperature and precipitation records, weather forecasting, and climate change trends. Uses computers to access data sets and process data. Prereqs., ATOC 1050 and 1060, or ATOC 3600/GEOG 3601/ENVS 3600, or GEOG 1001 and 1-semester calculus. Same as GEOG 3301. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-3500 (3) Air Chemistry and Pollution

Examines the composition of the atmosphere, and sources of gaseous and particulate pollutants: their chemistry, transport, and removal from the atmosphere. Applies general principles to acid rain, smog, and stratospheric ozone depletion. Prereqs., two semesters of chemistry. ATOC 3500 and CHEM 3151 are the same course. CHEM 3151 was formerly CHEM 3500. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-3600 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system. Covers the hydrological cycle and its role in climate, climate stability, and global change. Includes forecasting climate and its application and human dimensions. Prereqs., ATOC 1050 and 1060, or ATOC 3300/GEOG 3301, or GEOG 1001 and 1-semester calculus. Same as GEOG 3601/ENVS 3600. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-3720 (3) Planets and Their Atmospheres

Explores the physics and chemistry of the atmospheres of Mars, Venus, Jupiter, Saturn, and Titan. Examines evolution of the atmospheres of Earth, Venus, and Mars; and the escape of gases from the Galilean satellites, Titan and Mars; the orbital characteristics of moons, planets, and comets. Uses recent results of space exploration. Elective for APS major and minor. Prereq., PHYS 1110--1120, and either MATH 1300--2300, or APPM 1350--1360, or instructor consent. Same as ASTR 3720. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Astronomy (ASTR) or Atmospheric & Oceanic Sciences (ATOC) majors only.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-4215 (3) Descriptive Physical Oceanography

Introduces descriptive and dynamical physical oceanography, focusing on the nature and dynamics of ocean currents and their role in the distribution of heat and other aspects of ocean physics related to the Earth's climate. Dynamical material limited to mathematical descriptions of oceanic physical systems. Restricted to seniors. Same as ATOC 5215 and ASEN 4215. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4500 (1-3) Special Topics in Atmospheric and Oceanic Sciences

Acquaints students with current research in atmospheres, oceans, and climate. Topics may vary each semester. May be repeated for a total of 9 total credit hours within the degree. Students may register for more than one section of this course in the same semester.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4700 (3) Weather Analysis & Forecasting

Utilizing a range of operational weather observations to analyze current weather conditions, providing hands-on experience interpreting observations and relating those observations to the physical principles that govern atmospheric behavior is the course emphasis. It focuses on how to read weather reports, analyze observations, and how to prepare weather maps to analyze current conditions and how to interpret numerical weather forecasts. Prereqs., ATOC 1050 or 1060. Recommended prereq., ATOC 4720. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4720 (3) Introduction to Atmospheric Physics and Dynamics

Introduces the fundamental physical principles that govern the atmosphere, and provides an elementary description and interpretation of a wide range of atmospheric phenomena. Topics include atmospheric structure and composition, electromagnetic radiation, clouds, precipitation, energy balance, atmospheric motion, and climate. Prereqs., one year of calculus and one year of physics with calculus.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4750 (3) Desert Meteorology and Climate

Introduces students to the dynamic causes of deserts in the context of atmospheric processes and land-surface physics. Discusses desert severe weather, desert microclimates, human impacts and desertification, inter-annual variability in aridity (drought), the effects of deserts on global climate, and the impact of desert climate on humans. Prereq., ATOC 1050 or equivalent. Same as ATOC 5750. Approved for arts and sciences core curriculum: natural sciences.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4800 (3) Policy Implications of Climate Controversies

Examines controversial issues related to the environment, including climate change. Covers scientific theories and the intersection between science and governmental policy. Includes discussion, debate, and critical reading of textual materials. Prereqs., ATOC 1060 or 3600. Credit not granted for this course and ATOC 5000.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-4900 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-4950 (1-3) Honors Thesis

Students work independently on a research topic under the guidance of a faculty member. A written thesis and an oral presentation of the work are required. Registration by arrangement and with consent of faculty mentor. Prereq., junior or senior standing, and minimum 3.00 GPA. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-5000 (3) Critical Issues in Climate and the Environment

Discusses current issues such as ozone depletion, global warming, and air quality for graduate students in nonscientific fields. Provides the scientific background necessary to understand, follow scientific developments, and critically evaluate these issues. Same as ENVS 5830. Credit not granted for this course and ATOC 4800.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-5050 (3) Introduction to Atmospheric Dynamics

Covers atmospheric motion and its underlying mathematical and physical principles. Explores the dynamics of the atmosphere and the mathematical laws governing atmospheric motion. Topics include atmospheric composition and thermodynamics, conservation laws, geostrophic balance, vorticity dynamics, boundary layers, and baroclinic instability. ATOC graduate core course.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-5051 (3) Introduction to Physical and Chemical Oceanography

Provides fundamental knowledge of the basic dynamics and chemical composition of the ocean. Prereq., calculus. ATOC graduate core course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

ATOC-5060 (3) Dynamics of the Atmosphere

Examines large-scale motions in a stratified rotating atmosphere, and quasi-geostrophic flow, barotropic and baroclinic instabilities, cyclogenesis, global circulations, and boundary layer processes. Ageostrophic motions, including Kelvin waves, internal gravity waves, and the theory of frontogenesis are also considered. Prereq., ATOC 5050 or equivalent. ATOC graduate core course.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5061 (3) Dynamics of Oceans

Explores theories of the large-scale ocean, including quasigeostrophic, planetary geostrophic, and shallow water equations. Topics may vary to focus on ocean climate (e.g. thermocline, westward intensification), ocean waves (e.g. gravity, Rossby, and Kelvin), or ocean models (toy, analytic, and numerical). Maybe repeated up to 9 total credit hours. Prereqs., ATOC 5400 and ATOC 5051 or 5060 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5151 (3) Atmospheric Chemistry

Reviews basic kinetics and photochemistry of atmospheric species and stratospheric chemistry with emphasis on processes controlling ozone abundance. Tropospheric chemistry focusing on photochemical smog, acid deposition, oxidation capacity of the atmosphere, and global climate change. Prereq., graduate standing or instructor consent. ATOC graduate core course. Same as CHEM 5151.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5215 (3) Descriptive Physical Oceanography

Same as ATOC 4215 and ASEN 5215. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5235 (3) Introduction to Atmospheric Radiative Transfer and Remote Sensing

Examines fundamentals of radiative transfer and remote sensing with primary emphasis on the Earth's atmosphere; emission, absorption and scattering by molecules and particles; multiple scattering; polarization; radiometry and photometry; principles of inversion theory; extinction- and emission-based passive remote sensing; principles of active remote sensing; lidar and radar; additional applications such as the greenhouse effect and Earth's radiative energy budget. ATOC graduate core course. Same as ASEN 5235. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5300 (3) The Global Carbon Cycle

Covers the role of the ocean, terrestrial biosphere, and atmosphere in the global carbon cycle. Specific topics include marine carbonate chemistry, biological production, terrestrial fluxes,

anthropogenic emissions, and the evolution of the global carbon cycle in a changing climate. Prereq., graduate standing in a physical science or instructor consent. Prerequisites: Restricted to Graduate Students only.

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ATOC-1050 (3) Weather and the Atmosphere

Introduces principles of modern meteorology for nonscience majors, with emphasis on scientific and human issues associated with severe weather events. Includes description, methods of prediction, and impacts of blizzards, hurricanes, thunderstorms, tornadoes, lightning, floods, and firestorms. Approved for GT-SC1. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

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EBIO-1050 (1) Biology: A Human Approach Laboratory

One two-hour lab per week. Provides experiments and exercises relating to concepts presented in EBIO 1030 and 1040. Biology: a Human Approach 1 and 2. This course uses animals and/or animal tissues. Recommended for nonscience majors. When taken with EBIO 1030, meets MAPS requirement for natural science: lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Ecology & Evolutionary Biology](#)

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FREN-1050 (5) Beginning French Review

Covers the material of FREN 1010 and 1020 in one accelerated semester. Intended for students who know some French (i.e., four to five semesters in high school) but do not have skills adequate for 2000-level courses. Credit not granted for this course and FREN 1010 or FREN 1020.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

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RUSS-1050 (5) Intensive Beginning Russian

Covers same material as RUSS 1010 and RUSS 1020 combined in one course. Focuses on acquiring basic grammar (all cases for nouns, adjectives and possessives, verb conjugations, in all three tenses), and ability to understand and speak basic everyday Russian. Develops basic reading and writing skills and provides exposure to the fundamentals of the Russian culture. Credit not granted for this course and RUSS 1010 or 1020.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

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CHIN-1051 (3) Masterpieces of Chinese Literature in Translation

Surveys Chinese thought and culture through close reading and discussion of selected masterworks of Chinese literature in translation. Texts include significant works of poetry, fiction, and drama, as well as philosophical and historical writings from various eras. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

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CLAS-1051 (3) The World of the Ancient Greeks

Presents a survey of the emergence, the major accomplishments, the failures, and the decline of the ancient Greeks, from the Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.). No Greek or Latin required. Same as HIST 1051. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[Classics](#)
[Ancient History](#)

CLAS-1061 (3) The Rise and Fall of Ancient Rome

Presents a survey of the rise of ancient Rome in the eighth century B.C. to its fall in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. No Greek or Latin required. Same as HIST 1061. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[Classics](#)
[Ancient History](#)

CLAS-2041 (3) War and Society in Ancient Greece

Studies Greek warfare in its cultural, social, and economic contexts, in the light of anthropological comparisons and modern theories. No Greek or Latin required. Same as HIST 2041.

[College of Arts & Sciences](#)
[Classics](#)
[Ancient History](#)

CLAS-4021 (3) Athens and Greek Democracy

Studies Greek history from 800 B.C. (the rise of the city-state) to 323 B.C. (the death of Alexander the Great). Emphasizes the development of democracy in Athens. Readings are in the primary sources. Same as CLAS 5021 and HIST 4021.

College of Arts & Sciences Classics Ancient History

CLAS-4031 (3) Alexander the Great and the Rise of Macedonia

Covers Macedonia's rise to dominance in Greece under Philip II and the reign and conquests of Alexander the Great. Prereq., one of the following: CLAS 1509, 3039, 3113, 4051, 4139, 4149, CLAS/HIST 1051, 2041, 4021, or 4041. Same as CLAS 5031 and HIST 4031.

College of Arts & Sciences Classics Ancient History

CLAS-4041 (3) Classical Greek Political Thought

Studies main representatives of political philosophy in antiquity (Plato, Aristotle, Cicero) and of the most important concepts and values of ancient political thought. No Greek or Latin required. Prereq., CLAS/HIST 1051, CLAS/HIST 1061, HIST 1010, PSCI 2004, or PHIL 3000. Same as CLAS 5041, HIST 4041, and PHIL 4210.

College of Arts & Sciences Classics Ancient History

CLAS-4061 (3) Twilight of Antiquity

Explores the reasons for the fall of the Roman Empire in the western Mediterranean and its survival in the East as Byzantium. Emphasizes Christianity; barbarians; social, economic, and cultural differences; contemporary views of Rome; and modern scholarship. No Greek or Latin is required. Same as CLAS 5061 and HIST 4061.

College of Arts & Sciences Classics Ancient History

CLAS-4071 (3) Seminar in Ancient Social History

Considers topics ranging from demography, disease, family structure, and the organization of daily life to ancient slavery, economics, and law. Focuses either on Persia, Greece, or Rome and includes a particular emphasis on the methodology required to reconstruct an ancient society, especially the interpretation of problematic literary and material evidence and the selective use of comparisons with better known societies. No Greek or Latin required. May be repeated up to 9 total credit hours. Same as CLAS 5071 and HIST 4071.

College of Arts & Sciences Classics Ancient History

CLAS-4081 (3) The Roman Republic

Studies the Roman Republic from its foundation in 753 B.C. to its conclusion with the career of Augustus. Emphasizes the development of Roman Republican government. Readings are in the primary sources. No Greek or Latin required. Same as CLAS 5081 and HIST 4081.

College of Arts & Sciences | Classics | Ancient History

CLAS-4091 (3) The Roman Empire

Intense survey of Imperial Rome from the Roman revolution to the passing of centralized political authority in the western Mediterranean. Emphasizes life, letters, and personalities of the empire. No Greek or Latin required. Same as CLAS 5091 and HIST 4091.

College of Arts & Sciences | Classics | Ancient History

CLAS-4761 (3) Roman Law

Studies the constitutional and legal history of ancient Rome; emphasizes basic legal concepts and comparisons with American law. No Greek or Latin required. Same as CLAS 5761 and HIST 4761.

College of Arts & Sciences | Classics | Ancient History

CLAS-5021 (3) Athens and Greek Democracy

Same as CLAS 4021. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5031 (3) Alexander the Great and the Rise of Macedonia

Same as CLAS 4031. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5041 (3) Classical Greek Political Thought

Same as CLAS 4041. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5061 (3) Twilight of Antiquity

Same as CLAS 4061 and HIST 5061. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5071 (3) Seminar in Ancient Social History

Same as CLAS 4071 . Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5081 (3) The Roman Republic

Same as CLAS 4081 . Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5091 (3) The Roman Empire

Same as CLAS 4091 . Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-5761 (3) Roman Law

Same as CLAS 4761 . Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

CLAS-7011 (3) Seminar in Ancient History

Examines topics in ancient Greek and Roman history at an advanced seminar level. May be repeated up to 6 total credit hours. Same as HIST 7011 . Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Ancient History

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CLAS-1051 (3) The World of the Ancient Greeks

Presents a survey of the emergence, the major accomplishments, the failures, and the decline of the ancient Greeks, from the Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.). No Greek or Latin required. Same as HIST 1051. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Classics](#) | [Ancient History](#)

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COMM-1210 (3) Perspectives on Human Communication

Surveys communication in a variety of contexts and applications. Topics include basic concepts and general models of communication, ethics, language and nonverbal communication, personal relationships, group decision making, organizational communication, and impact of technological developments on communication. Required for COMM majors. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Communication](#)

EBIO-1210 (3) General Biology 1

Lect. Provides a concentrated introduction to molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors. Credit not granted for this course and EPOB 2060,2660 or KAPH 2060. Approved for GT-SC1. Meets MAPS requirement for natural science. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

ESLG-1210 (2) Academic Writing for Foreign Students

Addresses the development of paragraphs and full-length essays. Focus areas include organization and style, grammar and vocabulary, and conventions of academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Improves fluency and precision in academic writing. Does not fulfill humanities or major requirements.

[College of Arts & Sciences](#) [Linguistics](#)

ARTS-1212 (3) Painting for Non-Majors

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated.

College of Arts & Sciences | Art & Art History | Painting/Drawing

HIST-1218 (3) Introduction to Sub-Saharan African History to 1800

Provides an introduction to African history, beginning with early man and ending in 1800. This course moves rapidly through civilizations as different as Ancient Egypt, Mali, Oyo, and the Cape Colony, touching on important developments and highlighting themes relevant to the history of Africa as a whole. These include migration, technology, environment, trade, gender, religion, slavery, and more. Formerly HIST 1208. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

DNCE-1220 (1) Beginning Jazz with Experience

Further develops work begun in Beginning Jazz. Exercises and jazz dance phrases are more complex. May be repeated up to 2 total credit hours. Prereq., DNCE 1200.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

EBIO-1220 (3) General Biology 2

Provides a concentrated introduction to organisms, homeostasis, development, behavior, and ecology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors. Prereq., EBIO 1210 or equivalent. Credit not granted for this course and EPOB 2050 or 2650. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Ecology & Evolutionary Biology

PHYS-1220 (3) Physics for Future Presidents

Intended primarily for nonscientists, this course covers topics relevant to leaders, policy makers, and citizens confronted with science and technology issues. Topics include energy consumption and its impact on the environment; atoms and heat; radioactivity and nuclear reactions; nuclear bombs; light and radio waves for technological applications; climate change; quantum physics. Recommended prereq., high school algebra. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Physics

CHEM-1221 (2) Engineering General Chemistry Lab

Coreq., CHEN 1211. One hour recitation in which concepts and problems are re-emphasized, homework is collected, and quizzes are given. Three hour lab in which students perform experiments designed to illustrate chemical concepts discussed in CHEN 1211. Also introduction to basic techniques in chemical measurements and synthesis. Prereq., one year high school

chemistry or CHEM 1001 or 1021 (min grade C-); high school algebra. Coreq., CHEN 1211. Credit not granted for this course and CHEM 1111, 1113/1114, 1251 or 1351. Restricted to engineering students only. Prerequisites: Requires pre-requisite of course CHEM 1001 or 1021 (minimum grade C-). Requires co-requisite of course CHEN 1211. Restricted to Engineering students only.

College of Arts & Sciences | Chemistry

ESLG-1222 (2) Advanced Written Composition for Foreign Students

Continued practice in academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Preparation, writing, and revising of a full-length academic term/research paper or work on chapters for a master's thesis or doctoral dissertation. Does not fulfill humanities or major requirements. Prereq., ESLG 1210 or instructor consent.

College of Arts & Sciences | Linguistics

HIST-1228 (3) Introduction to Sub-Saharan African History Since 1800

Introduces students to the history of Sub-Saharan Africa from 1800 to the present. Major topics of study included the trans-Atlantic slave trade, African state-building, European colonialism, African responses to colonialism and issues facing independent African nations, ranging from debt to HIV/AIDS. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

EBIO-1230 (1) General Biology Laboratory 1

One 3-hour lab per week. Consists of experiments and exercises to provide an extension of basic concepts and scientific approaches presented in General Biology 1. Intended for science majors. Prereq. or coreq., EBIO 1210. Credit not granted for this course and EPOB 2060, 2660 or KAPH 2060. Meets MAPS requirement for natural science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Ecology & Evolutionary Biology

PHYS-1230 (3) Light and Color for Nonscientists

Discusses light, color, vision, and perception. Covers reflection, refraction, lenses, and applications to photography and other methods of light sensing. Other topics include lasers and holography. Course is geared toward nonscience majors. Meets MAPS requirements for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and science core curriculum: natural science.

College of Arts & Sciences | Physics

EBIO-1240 (1) General Biology Laboratory 2

One 3-hour lab per week. Consists of experiments and exercises to provide an extension of basic concepts and scientific approaches presented in General Biology 2. Intended for science majors. Prereq. or coreq., EBIO 1220 or equivalent. Credit not granted for this course and EPOB 2050 or 2650. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

PHYS-1240 (3) Sound and Music

Explores the physical processes that underlie the diversity of sound and musical phenomena. Topics covered include the physical nature of sound, the perception of sound, the perception of pitch and harmony, musical instruments, synthesizers and samplers, and room acoustics. Nonmathematical; geared toward nonscience majors. Approved for GT-SC2. Meets MAPS requirement for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Physics

WRTG-1250 (3) Advanced First-Year Writing and Rhetoric

Advanced version of WRTG 1150 intended for more experienced writers, this course meets the same goals as WRTG 1150 but at a more challenging level. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-CO2. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Program for Writing & Rhetoric

CHEM-1251 (5) General Chemistry 1 for Chemistry and Biochemistry Majors

Lect. and lab. Intended for first-semester CHEM/BCHM majors. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (minimum grade C-); high school math through pre-calculus. Not recommended for students with grade below B- in CHEM 1021. Restricted to CHEM/BCHM majors. Credit not granted for this course and CHEM 1113/1114, CHEM 1351, or CHEN 1211/CHEM 1221. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

ENGL-1260 (3) Introduction to Women's Literature

Introduces literature by women in England and America. Covers both poetry and fiction and varying historical periods. Acquaints students with the contribution of women writers to the English literary tradition and investigates the nature of this contribution. Same as WMST 1260. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences English General Literature & Language

WMST-1260 (3) Introduction to Women's Literature

Same as ENGL 1260. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies English

CHEM-1271 (5) General Chemistry 2 for Chemistry and Biochemistry Majors

Lect. and lab. Intended for second-semester CHEM/BCHM majors. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1251 or equivalent (minimum grade C-). Restricted to CHEM/BCHM majors. Credit not granted for this course and CHEM 1131, 1133/1134 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of CHEM 1251 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences | Chemistry

DNCE-1290 (1) Jazz 1

Introduces jazz dance, consisting of a technique warm-up, locomotion across the floor, and a series of dance phrases developed into a short dance combination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Theater & Dance | Nonmajor Technique

ARTH-1300 (3) History of World Art 1

Surveys major art styles from the Paleolithic period through the Renaissance, including European, Asian, and the Pre-Columbian/Islamic world. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

COMM-1300 (3) Public Speaking

Covers theory and skills of speaking in various public settings. Examines fundamental principles from rhetorical and communication theory and applies them to oral presentations. Required for COMM majors.

College of Arts & Sciences | Communication

EBIO-1300 (1-3) Topics in Biological Sciences

Covers special topics in biology for freshmen or nonmajors. Introduces scientific methods and principles in biology, as well as issues of current interest in biology. Does not count toward the major in EBIO.

College of Arts & Sciences | Ecology & Evolutionary Biology

MATH-1300 (5) Calculus 1

Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration and application of the definite integral. Prereqs., two years high school algebra, one year geometry, and 1/2 year trigonometry or MATH 1150. Credit not granted for this course and MATH 1081, 1310, APPM 1345, 1350, and ECON 1088. Similar to MATH 1080, 1090, and 1100. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

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HIST-1051 (3) The World of the Ancient Greeks

Surveys the emergence, major accomplishments, failures, and decline of the world of the ancient Greeks, from Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.) Same as CLAS 1051. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

HIST-1061 (3) The Rise and Fall of Ancient Rome

Surveys the rise of ancient Rome in the eighth century B.C. to its "Fall" in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. Same as CLAS 1061. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

HIST-3011 (3) Seminar in Ancient History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

HIST-3511 (3) Seminar in Medieval History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

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| College of Arts & Sciences | History | Europe: Ancient and Medieval |
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HIST-3841 (1-3) Independent Study

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| College of Arts & Sciences | History | Europe: Ancient and Medieval |
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HIST-4021 (3) Athens and Greek Democracy

Studies Greek history from 800 B.C. (the rise of the city-state) to 323 B.C. (the death of Alexander the Great). Emphasizes the development of democracy in Athens. Readings are in the primary sources. Same as CLAS 4021. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | History | Europe: Ancient and Medieval |
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HIST-4031 (3) Alexander the Great and the Rise of Macedonia

Covers Macedonia's rise to dominance in Greece under Philip II and the reign and conquests of Alexander the Great. Prereq., one of the following: CLAS 1509, 3039, 3113, 4051, 4139, 4149, CLAS/HIST 1051, 2041, 4021, or 4041. Same as CLAS 4031.

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| College of Arts & Sciences | History | Europe: Ancient and Medieval |
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HIST-4041 (3) Classical Greek Political Thought

Studies main representatives of political philosophy in antiquity (Plato, Aristotle, Cicero) and of the most important concepts and values of ancient political thought. Prereq., CLAS/HIST 1051, CLAS/HIST 1061, HIST 1010, PSCI 2004, or PHIL 3000. Restricted to sophomores/juniors/seniors. Same as CLAS 4041 and PHIL 4210.

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| College of Arts & Sciences | History | Europe: Ancient and Medieval |
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HIST-4061 (3) Twilight of Antiquity

Explores the reasons for the fall of the Roman Empire in the western Mediterranean and its survival in the east as Byzantium. Emphasizes Christianity; barbarians; social, economic, and cultural differences; contemporary views of Rome; and modern scholarship. No Greek or Latin is required. Same as HIST 5061 and CLAS 4061.

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| College of Arts & Sciences | History | Europe: Ancient and Medieval |
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HIST-4071 (3) Seminar in Ancient Social History

Considers topics ranging from demography, disease, family structure, and the organization of daily life to ancient slavery, economics, and law. Focuses either on Persia, Greece, or Rome and includes a particular emphasis on the methodology required to reconstruct an ancient society, especially the interpretation of problematic literary and material evidence, and the selective use of comparisons with better known societies. No Greek or Latin required. May be repeated up to 9 total credit hours. Same as CLAS 4071. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4081 (3) The Roman Republic

Studies the Roman Republic from its foundation in 753 B.C. to its conclusion with the career of Augustus. Emphasizes the development of Roman Republic government. Readings are in the primary sources. No Greek or Latin required. Same as CLAS 4081. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4091 (3) The Roman Empire

Studies Imperial Roman history beginning with the Roman Revolution and ending with examination of the passing of centralized political authority in the western Mediterranean. Emphasizes life, letters, and personalities of the Empire. Same as CLAS 4091. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4511 (3) Europe in the Dark Ages (400--1000 A.D.)

Examines the history of Europe from the fall of the Roman Empire to the turn of the first millennium. Treats social, political, and religious transformations in the barbarian kingdoms, and considers the persistence of Roman institutions and culture and the impact of Christianity in northern Europe. Prereq., HIST 1010, 1030, 2170 or 2543. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4521 (3) Europe in the High Middle Ages (1000--1400 A.D.)

Examines the history of Europe from the emergence of feudal institutions to the rise of nation states, with specific attention to social, intellectual and religious change, the role of law and ritual, the crusades and European expansion, and urban growth and identity in the West. Prereq., HIST 1010, 1030, 2170, or 2543. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4711 (3) The Medieval Crusades: Holy War and Its History, 1095--1400

Studies the innovation, impact and meaning of holy war and the expansion of Christendom during the High Middle Ages. Topics include the definition of crusade and crusaders, religious persecution and tolerance, the expansion of European modes of government, war memory, colonization and its aftermath, the meaning of the Holy Land and the home front. Prereq., HIST 1010 or 3020. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4761 (3) Roman Law

Same as HIST 5761 and CLAS 4761.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-5061 (3) Twilight of Antiquity

Same as HIST 4061 and CLAS 5061.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-5761 (3) Roman Law

Same as HIST 4761 and CLAS 5761.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-5841 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-6511 (3) Readings in Medieval History

Prereq., instructor consent.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7011 (3) Seminar in Ancient History

Examines topics in ancient Greek and Roman history at an advanced seminar level. May be repeated up to 6 total credit hours. Same as CLAS 7011.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7551 (3) Seminar: Medieval History

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7581 (3) Latin Paleography

Discusses the development of formal scripts from the late Roman Empire to the 15th century. Provides practice in identification, transliteration, and translation of medieval manuscripts. Prereqs., graduate standing and reading knowledge of Latin.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7841 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Ancient and Medieval

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HIST-1051 (3) The World of the Ancient Greeks

Surveys the emergence, major accomplishments, failures, and decline of the world of the ancient Greeks, from Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.) Same as CLAS 1051. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [History](#) | [Europe: Ancient and Medieval](#)

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JPNS-1051 (3) Masterpieces of Japanese Literature in Translation

Surveys Japanese thought and culture through careful reading and discussion of selected masterworks of Japanese literature in translation. Texts include significant works of poetry, fiction, drama, diaries, and essays, from ancient times to the present. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Asian Languages & Civilizations](#) | [Japanese Courses in English](#)

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ATOC-1060 (3) Our Changing Environment: El Nino, Ozone, and Climate

Discusses the Earth's climate for nonscience majors, focusing on the role of the atmosphere, oceans, and land surface. Describes the water cycle, atmospheric circulations, and ocean currents, and how they influence global climate, El Nino, and the ozone hole. Discusses human impacts from climate change. Prereq., ATOC 1050. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

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GEOL-1060 (3) Global Change---An Earth Science Perspective

Focuses on evidence for planetary warming, climate change, glacier and ice-sheet melting, and sea level rise both now and in the recent past. Attempts to develop understanding of the interactions within the coupled Earth system that regulate such changes. Utilizes examples from the geological and instrumental records, and evaluates the global warming forecast. Prereq., GEOL 1010. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Geological Sciences](#)

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CHIN-1061 (3) Boudoirs, Books, Battlefields: Voices and Images of Chinese Women

Explores narrative and visual representations of women throughout Chinese history. Emphasizes how modern values of freedom and equality have transformed women's lives and shaped their aspirations. Course materials include memoirs, novels, ethnographies, documentaries, and feature films. No knowledge of Chinese is necessary. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

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CLAS-1061 (3) The Rise and Fall of Ancient Rome

Presents a survey of the rise of ancient Rome in the eighth century B.C. to its fall in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. No Greek or Latin required. Same as HIST 1061. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Classics](#) | [Ancient History](#)

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HIST-1061 (3) The Rise and Fall of Ancient Rome

Surveys the rise of ancient Rome in the eighth century B.C. to its "Fall" in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. Same as CLAS 1061. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

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ATOC-1070 (1) Weather and the Atmosphere Laboratory

Optional laboratory for ATOC 1050. Laboratory experiments illustrate fundamentals of meteorology. Covers collection, analysis, and discussion of data related to local weather. Uses computers for retrieval and interpretation of weather data from Colorado and across the U.S. Prereq. or coreq., ATOC 1050 or instructor consent. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) | [Atmospheric & Oceanic Sciences](#)

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MATH-1071 (3) Finite Mathematics for Social Science and Business

Discusses systems of linear equations and introduces matrices, linear programming, and probability. Prereq., MATH 1011 or 1 1/2 years of high school algebra. Credit not granted for this course and MATH 1050, 1060 and 1070. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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Number

ECON-1078 (3) Mathematical Tools for Economists 1

Teaches mathematical skills and logical thinking for use in economics. Topics include algebra, graphs, functions, and probability. The class includes many "Real world" examples and some illustrative computer assignments. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#)
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ECON-1088 (3) Mathematical Tools for Economists 2

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. These skills are used on "real world" problems, and illustrated with computer assignments. Prereq., ECON 1078 or instructor consent. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, and APPM 1350.

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ECON-2010 (4) Principles of Microeconomics

Examines basic concepts of microeconomics, or the behavior and the interactions of individuals, firms, and government. Topics include determining economic problems, how consumers and businesses make decisions, how markets work and how they fail, and how government actions affect markets. Credit not granted for this course and ECON 1000 and 1001. Meets MAPS requirements for social sciences: general. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
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[Theory & History Economic Thgt](#)

ECON-2020 (4) Principles of Macroeconomics

Provides an overview of the economy, examining the flows of resources and outputs and the factors determining the levels of income and prices. Explores policy problems of inflation, unemployment, and economic growth. Prereq., ECON 2010. Credit not granted for this course and ECON 1000 and 1001. Meets MAPS requirement for social sciences: general. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-3070 (3) Intermediate Microeconomic Theory

Explores theory and application of models of consumer choice, firm and market organization, and general equilibrium. Extensions include intertemporal decisions, decisions under uncertainty, externalities, and strategic interaction. Prereqs., ECON 1000 or 2010; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-3080 (3) Intermediate Macroeconomic Theory

Introduces theories of aggregate economic activity including the determination of income, employment, and prices; economic growth; and fluctuations. Macroeconomic policies are explored in both closed and open economy models. ECON 3070 and 3080 may be taken in any order; there is no recommended sequence. Prereqs., ECON 1000 or 2020; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-3403 (3) International Economics and Policy

Examines national and supranational policies that affect the international economy, with attention to trade barriers, economic nationalism and regionalism, international political economy, exchange market intervention, and international transmission of economic perturbations. Prereqs., ECON 2010 and 2020. This course may not be taken after either ECON 4413 or ECON 4423. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-3535 (3) Natural Resource Economics

Integrates economic analysis with life science aspects of natural resource systems to develop social policies for use of natural resources. Studies economists' approaches to resources policy analysis and applies them to energy, forestry, fisheries, mineral, and water systems. Prereq., ECON 2010. Credit not granted for this course and ECON 4535. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | Natural Resources & Environ

ECON-3545 (3) Environmental Economics

Highlights causes of excessive environmental pollution and tools for controlling it through economic analysis, values of preservation, and distribution of costs and benefits from environmental protection programs. Prereq., ECON 2010. Credit not granted for this course and ECON 4545. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | Natural Resources & Environ

ECON-3784 (3) Economic Development and Policy

Introductory course in Economic Development, designed for non-majors. Students are introduced to the major issues in development economics. Students will explore empirical, theoretical, and policy issues in economic development. Emphasis is placed on the controversial issues in this literature, requiring students to explore competing, and often conflicting, perspectives of these issues. Prereqs., ECON 2010 and 2020. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | Economic Development

ECON-3818 (4) Introduction to Statistics with Computer Applications

Introduces statistical methods and their applications in quantitative economic analysis. Prereqs., ECON 2010 and 2020; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4070 (3) Topics in Microeconomics

Studies utility maximization under uncertainty, risk, game theory, moral hazard, and adverse selection. Applications include insurance markets and the theory of contracts. Prereqs., ECON 3070 and 4808 or equivalent, or instructor consent.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-4111 (3) Money and Banking Systems

Discusses money, financial institutions and the monetary-financial system in a modern economy. Prereq., ECON 3080.

College of Arts & Sciences | Economics | Money and Banking

ECON-4211 (3) Economics of the Public Sector

Focuses on taxation and public expenditures. Topics include economic rationale for government action, economic theory of government behavior, and effects of government policies on allocation of resources and distribution of income. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Public Economics

ECON-4221 (3) Political and Public Choice Economics

Explores decision-making in non-traditional market settings, specifically political market settings, using economic models. We investigate policy outcomes as the product of interactions among individuals in political markets, and analyze how governmental decisions are the result of rational optimizing behavior, even if they do not lead to policies that maximize national welfare. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Public Economics

ECON-4231 (3) Practicum: Applied Economic Analysis and Public Policy

Applies economic analysis to current issues of public policy. Reviews basic public finance and economic justifications for government action. Examines structure and procedures of Colorado State Legislature. Chooses current legislative issues, reviews relevant economic literature and applies implications through briefing papers and testimony at legislative hearings. Explores the challenges of integrating informed economic analysis into legislative process. Prereqs., ECON 3070, 3080, and 3818.

College of Arts & Sciences | Economics | Public Economics

ECON-4242 (3) Urban Economics: The Economics of Cities

Considers the economic forces which drive households and jobs to congregate in metropolitan areas. It then considers the forces within the city which determine how the established cities "look" - how rents vary with location, the distribution of jobs and households within a city, urban sprawl, and the sorting of households between neighborhoods. Finally it considers some government policies relating to land use and housing. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-4292 (3) Migration, Immigrant Adaptation, and Development

Examines historical and current patterns of migration with an emphasis in international movement. Looks at leading migration theories related to both origin- and destination-based explanations while critically looking at the role of development as a potential cause and consequence of population movement. Finally, covers some aspects of immigrants' social and economic adaptation to their host society. Prereq., ECON 3070. Same as GEOG 4292.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-4309 (3) Economics Honors Seminar 1

For information consult the department's director of honors. Open only to qualified seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Economics | Independent Study and Other

ECON-4339 (3) Economics Honors Seminar 2

For information consult the department's director of honors. This course does not count toward major requirements. Prereq., ECON 4309. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Economics | Independent Study and Other

ECON-4413 (3) International Trade

Focuses on theories of international trade and its impacts on economic welfare. Analyzes commercial policy, including tariffs, non-tariff barriers, retaliation, regional integration, and factor migration. Prereq., ECON 3070.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-4423 (3) International Finance

Covers balance of payments; foreign exchange market, income, trade, and capital flows; asset markets adjustment mechanisms; stabilization policies in an open economy; and problems of international monetary systems. Prereq., ECON 3080.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-4504 (3) The New Institutional Economics: Institutions, Contracts and Economic Outcomes

Understand the conceptual tool kit of the New Institutional Economics. The concepts include transaction costs, property rights, credible commitment, and most importantly the roles of formal and informal institutions. We will examine the impact of institutions on contracting and organizations. The goal is to understand how the underlying institutions determine the degree to which societies improve their economic performance. Prereqs., ECON 3070, 3080 and 3818.

College of Arts & Sciences | Economics | Economic History

ECON-4514 (3) Economic History of Europe

Covers evolution of modern economic growth and development in Europe, emphasizing institutional change. Prereqs., ECON 3070 or 3080. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Economics | Economic History

ECON-4524 (3) Economic History of the United States

Evolution of modern economic growth and development in the U.S. from colonial times to the present emphasizing institutional change. Prereq., ECON 3070. Approved for arts and sciences core curriculum: United States context.

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ECON-1078 (3) Mathematical Tools for Economists 1

Teaches mathematical skills and logical thinking for use in economics. Topics include algebra, graphs, functions, and probability. The class includes many "Real world" examples and some illustrative computer assignments. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

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ECON-1088 (3) Mathematical Tools for Economists 2

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. These skills are used on "real world" problems, and illustrated with computer assignments. Prereq., ECON 1078 or instructor consent. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, and APPM 1350.

[College of Arts & Sciences](#)
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ECON-3818 (4) Introduction to Statistics with Computer Applications

Introduces statistical methods and their applications in quantitative economic analysis. Prereqs., ECON 2010 and 2020; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent.

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ECON-4808 (3) Introduction to Mathematical Economics

Introduces the use of mathematics in economics. Topics include vectors and matrices, differential calculus, and optimization theory, with economic applications. Prereqs., ECON 3070 and ECON 3818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4818 (3) Introduction to Econometrics

Provides undergraduate economics majors with an introduction to econometric theory and practice. Develops the multiple regression model and problems encountered in its application in lecture and individual applied projects. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4838 (3) Microcomputer Applications in Economics

Teaches basic concepts in Java programming applied to economic models. Development of Web pages and dynamic modeling will be introduced. Students will gain a foundation that can be applied to creating advanced applications relating to analysis of statistical data and custom projects. Prereqs., ECON 3070 and ECON 3818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4848 (3) Applied Econometrics

Introduces students to the practice of applied regression analysis. Summarizes and reviews the regression technique, explores U.S. census data sources, introduces an advanced statistical software package and provides structured exercises in regression analysis of census data. Concludes with independent research projects analyzing social and economic issues using regression analysis and census data. Prereqs., ECON 3070 and 3818 or equivalent.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4858 (3) Financial Econometrics

Introduces statistical models, estimation and testing procedures used in analyzing financial data for advanced undergraduates. Topics include the modeling of returns, portfolio theory, the capital asset pricing model, options pricing and fixed income securities. Prereq., ECON 3818 or equivalent. Recommended prereq., ECON 4818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4868 (3) Simulation Modeling in Microeconomics

Computer simulation modeling translates theory into computer code to examine questions numerically; for example, the effects of taxes or emissions permits on welfare and income distribution.

We use GAMS (general algebraic modeling system); a version may be downloaded for free. Students must have access to a computer (not needed in the classroom). Prereq., ECON 3070.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-6828 (3) Applied Time Series Analysis (Box-Jenkins) and Forecasting

Introduces first-year graduate students to time series approach of model building and forecasting. Basic topics are autoregressive integrated moving average models, nonstationarity and co-integration, vector autoregressions, and the evaluation of forecasts from such models. Emphasizes applied computer assignments. Prereqs., ECON 3818 and 4808, or equivalent.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-7818 (3) Mathematical Statistics for Economists

Provides the mathematical foundation for Ph.D. level statistical inference in economic research. The primary topics of the course are probability theory and mathematical statistics including hypothesis testing and classical estimation with an emphasis on the method of maximum likelihood. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-7828 (3) Econometrics

Continuation of ECON 7818. Topics include regression analysis and extensions of the linear regression model to generalized least squares, time series data, and systems of equations. Prereq., ECON 7818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8828 (3) Seminar: Econometrics 1

First semester of two-semester sequence in econometrics for PhD students. Studies least squares and generalized least squares estimation of linear econometric models. Asymptotic (large sample) theory of inference. Some topics in the estimation of microdata. Prereq., ECON 7818. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8838 (3) Seminar: Econometrics 2

Teaches the advanced level of econometrics theory. Topics include asymptotic theory, maximum likelihood estimation, limited dependent variables analysis and other frontier areas of econometrics such as the method of moment estimation, semiparametric and nonparametric estimation procedure. Prereq., ECON 7828.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8848 (3) Applied Microeconometrics

Presents a "User's guide" to conducting empirical research in applied microeconomics. Begins with a primer on an industry-standard econometric software package including programming techniques and data management. Introduces advanced econometric techniques including panel data methods, IV, matching models, regression discontinuity, and limited dependent variables models. Concludes with a research project requiring a replication and/or extension of an existing published paper. Prereqs., ECON 7818 and 7828. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8858 (3) Computational and Structural Estimation Methods

Teaches students to construct a variety of applied economic models, obtain parameter values through calibration or estimation techniques, and uses the resulting models to conduct policy simulations. Prereqs., ECON 7010 and 7818. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

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ECON-1078 (3) Mathematical Tools for Economists 1

Teaches mathematical skills and logical thinking for use in economics. Topics include algebra, graphs, functions, and probability. The class includes many "Real world" examples and some illustrative computer assignments. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

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MATH-1081 (3) Calculus for Social Science and Business

Covers differential and integral calculus of algebraic, logarithmic, and exponential functions. Prereq., MATH 1011, 1071, 1010, or 1070 or placement exam score for MATH 1020 or two years high school algebra. Credit not granted for this course and MATH 1080, 1090, 1100, 1300, 1310, APPM 1350, and ECON 1088. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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ECON-1088 (3) Mathematical Tools for Economists 2

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. These skills are used on "real world" problems, and illustrated with computer assignments. Prereq., ECON 1078 or instructor consent. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, and APPM 1350.

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ANTH-1100 (3) Exploring a Non-Western Culture: The Tamils

Surveys the social and economic patterns, ideas and values, and aesthetic achievements of the Tamils, a Hindu people who live in South India and Sri Lanka. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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CLAS-1100 (3) Greek Mythology

Covers the Greek myths as documents of early human religious experience and imagination, the source of Greek culture, and part of the fabric of Western cultural tradition. Of particular interest to students of literature and the arts, psychology, anthropology, and history. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Classics](#) | [Literature, Culture, & Thought](#)

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WRTG-1100 (4) Extended First-Year Writing and Rhetoric

Extended version of WRTG 1150 that carries an additional hour of credit and is intended for students desiring more preparation and practice in college writing. Meets the same goals as WRTG 1150. Features one extra hour of small group work out of class. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 8 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#)
[Program for Writing & Rhetoric](#)

WRTG-1150 (3) First-Year Writing and Rhetoric

Rhetorically informed introduction to college writing. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#)
[Program for Writing & Rhetoric](#)

WRTG-1250 (3) Advanced First-Year Writing and Rhetoric

Advanced version of WRTG 1150 intended for more experienced writers, this course meets the same goals as WRTG 1150 but at a more challenging level. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#)
[Program for Writing & Rhetoric](#)

WRTG-1840 (1-3) Independent Study in Writing

May be repeated up to 8 total credit hours.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-2020 (3) Introduction to Creative Nonfiction

Explores from both the reader's and writer's perspectives the forms of creative nonfiction, including personal essay and memoir. Students will read and write extensively within this genre, develop skill in revision and peer critique, and learn how to submit work for publication. Does not fulfill core requirements. Prereq., WRTG 1150 or equivalent (completion of lower-division writing requirement).

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-2090 (3) Electives in Writing

Explores a variety of academic and professional writing genres, ranging from research to technical writing, in intensive workshops. Students read and write extensively across genres. Check with program for semester offerings. May be repeated up to 6 total credit hours if the topics are different. Designed for self-motivated students in all majors. Does not fulfill core requirements. Prereq., WRTG 1150 or equivalent.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3007 (3) Writing in the Visual Arts

Enables students in the arts to improve their writing skills through organization, presentation, critique, and revision. Writing assignments include formal writing (analysis and argument), informal writing, and grant proposals. Approved for GT-CO3. Approved for arts and sciences core curriculum: upper-division written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Art History (AAAH), Film Studies Concurrent Degree (C-FILM), Film (FILM or FMST), Studio Arts (AASA or AASF), Theatre (THTR or TBFA), or Dance (DNCE or DBFA) majors only.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3020 (3) Topics in Writing

Through sustained inquiry into a selected topic or issue, students will practice advanced forms of academic writing. The course emphasizes analysis, criticism, and argument. Taught as a writing workshop, the course places a premium on substantive, thoughtful revision. May be repeated up to 6 total credit hours. Same as NRLN 3020. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences students only.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3030 (3) Writing on Science and Society

Through selected reading and writing assignments, students consider ethical and social ramifications of science policy and practice. Focuses on critical thinking, analytical writing, and oral presentation. Taught as a writing workshop, the course addresses communication with professional and non-technical audiences. May be repeated up to 6 total credit hours. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits Engineering, MCDB, EBIO, GEOL, ASTR, IPHY, PHYS, ENVS, MATH, ECON, BCHM, CHEM or PSYC majors only.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3035 (3) Technical Communication and Design

Rhetorically informed introduction to technical writing that hones communication skills in the context of technical design activities. Treats design as a collaborative, user-oriented, problem-based activity, and technical communication as a rhetorically informed and persuasive design art. Taught as a writing workshop emphasizing critical thinking, revision, and oral presentation skills. Focuses on client-driven design projects and effective communication with multiple stakeholders. May be repeated up to 6 total credit hours. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, MCDB, EBIO, GEOL, ASTR, IPHY, ENVS, MATH, ECON, BCHM, CHEM, PHYS, ENVD, PLAN, DSGN or ARCH majors only.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3040 (3) Writing on Business and Society

Through selected reading and writing assignments, students examine ethical and social issues in the context of business decision-making processes. Focuses on critical thinking, analytical writing, and oral presentation. Taught as a writing workshop, the course emphasizes effective communication with professional and non-technical audiences. May be repeated up to 6 total credit hours. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Leeds School of Business (BUSN), Economics (ECON), International Affairs (IAFS) or Spanish (SPPR) majors only.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3090 (1-3) Open Topics in Writing: Advanced

Advanced topics course providing intensive, specialized writing instruction in selected topics. Check with the program for semester offerings. May be repeated up to 6 total credit hours if the topics are different. Does not fulfill core requirements. Prereqs., WRTG 3007, 3020, or 3030, or 3035, or 3040, or instructor consent required.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-3840 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-5050 (3) Graduate Studies in Writing and Rhetoric

Special topics and methods course in composition theory, research, and pedagogy. Topics vary by semester. May be repeated up to 9 total credit hours. Prereq., instructor consent.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Program for Writing & Rhetoric

WRTG-5840 (1-3) Independent Study-Writing & Rhetoric

Independent study. May be repeated up to 6 total credit hours. Prereqs., graduate standing and instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Program for Writing & Rhetoric

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PSCI-1101 (3) The American Political System

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Approved for GT-SS1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: contemporary societies or United States context.

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-2004 (3) Survey of Western Political Thought

Studies main political philosophies and political issues of Western culture, from antiquity to 20th century. Approved for GT-SS1. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
[Political Science](#)
[Political Theory](#)

PSCI-2012 (3) Introduction to Comparative Politics

Most countries confront a variety of common political problems, including how to gain popular support, what kinds of political institutions are most appropriate, and how to distribute burdens and benefits to different segments of the population. Concentrates on learning how to compare different political systems and provides illustrative examples from several countries in both the industrialized and nonindustrialized world. Approved for GT-SS1. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-2028 (3) Special Topics

Offers subjects not covered by existing courses. Offered when department approves a special topic. May be repeated up to 12 total credit hours for different topics.

College of Arts & Sciences | Political Science | General

PSCI-2075 (3) Quantitative Research Methods

Introduces quantitative research methods used in political science. Focuses on basic tools of analysis: data collection, processing, and evaluation, with special attention to survey techniques. Includes elite and case study analysis; aggregate, cluster, and content analysis; and the use of computers in political research. Restricted to students with 6 completed hours of political science course work. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-2106 (3) Introduction to Public Policy Analysis

Studies policymaking processes in American government, factors shaping public decision, and issues and questions relevant to political inquiry.

College of Arts & Sciences | Political Science | Public Policy

PSCI-2116 (3) Introduction to Environmental Policy and Policy Analysis

Teaches a systematic general framework for the analysis of environmental policy issues. Analyzes the interaction of environmental sciences, ethics, and policy across a range of environmental policy problems. Stresses critical thinking and practical applications. Recommended prereq., ENVS 1000.

College of Arts & Sciences | Political Science | Public Policy

PSCI-2223 (3) Introduction to International Relations

Introduces the field of international relations, with general survey of the theories, histories, and problems of historical and contemporary relations among state and nonstate actors. Approved for GT-SS1. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Political Science | International Relations

PSCI-2481 (3) Introduction to the Legal Process

Covers basic legal concepts and processes emphasizing the American system. Gives special attention to political functions of law. Recommended as preparation for PSCI 4241 and 4251. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-3011 (3) The American Presidency

Covers constitutional and institutional foundations and historical development of the presidency; roles, powers, selection, recent modifications, and institutionalization. Uses lectures and class discussion. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3021 (3) U.S. Campaigns and Elections

Introduces students to the subjects, techniques, and findings of Political Science research on campaigns and elections. Particular emphasis is placed on the study of voting, campaign effects, partisan coalitions, electoral rules, campaign finance, and the policy impact of elections. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Political Science | American

PSCI-3022 (3) Russian Politics

Examines the development of Russian politics from the late Soviet period to the present. Topics covered include political culture, democratic transition, economic reform, and social problems in Russia. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Political Science | Comparative

PSCI-3031 (3) Political Parties and Interest Groups

Highlights the practice of party politics in the United States, including the nature, structure, organization, and functions of political parties and interest groups. Analyzes interest group politics and political behavior. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3032 (3) Latin American Political Systems

Stresses different perspectives on Latin American politics and understanding key political actors and processes. Country focus varies. Prereq., PSCI 2012, IAFS 1000, IAFS major, Latin American studies major, or instructor consent. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3041 (3) The American Congress

Provides intensive examination of the role of Congress in American government, including congressional elections, representation, the organization of Congress, and congressional policy making. Examines larger context of congressional politics, including political parties, the president, and interest groups. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-3051 (3) Public Opinion and Political Behavior

Examines measurement of public opinion and evaluation of its impact on governmental policy formation, including survey research techniques and field work in opinion sampling. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3052 (3) Women and Politics in Latin America

Examines ways Latin American women have engaged in politics and their participation in social movements, war, peace processes and elections. Focuses on why women "Do politics" in certain ways, the role of the State in women's politics, the (dis)advantages of various political strategies, and how political, economic and social changes have affected women's political opportunities and interests. Prereq., WMST 2000 or instructor consent. Recommended prereqs., WMST 2400, 2600, 3600 or 3730. Same as WMST 3650. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3054 (3) American Political Thought

Highlights the development of American political theories and ideas from colonial period to present. Can also be taken for American field credit. Recommended prereq., PSCI 2004. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Political Theory

PSCI-3061 (3) State Government and Politics

Examines politics in the American states from a comparative and historical perspective. Considers major political actors---interest groups, citizens (direct democracy), and political parties, as well as central institutions, in the state political arena. Also focuses on major state public policy concerns. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3062 (3) Revolution and Political Violence

Studies and evaluates alternative theoretical frameworks for the analysis of revolution and political violence. Theoretical material is firmly couched in case situations, such as ethnic, class, colonial, urban, racial, and religious conflicts. Prereq., PSCI 1101, 2012, or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3064 (3) Environmental Political Theory

Examines environmental discourses as conceptual means for theorizing environmental politics, and applies normative political theories to contemporary environmental policy issues. Considers the roles of political actors (individuals, groups, the state) in defining and addressing environmental problems on local, national, and global levels. Recommended prereq., PSCI 2004. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Political Science | Political Theory

PSCI-3071 (3) Urban Politics

Examines the structure of political, social, and economic influence in urban areas. Focuses on the relationship of the political system to governmental, social, and economic institutions and the contemporary policy processes in American cities. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3072 (3) Government and Politics in Southeast Asia

Surveys historical and contemporary forces shaping politics in Southeast Asia. Gives special attention to comparative political economy, including development strategies and transitions to democracy. Prereqs., PSCI 2012 or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3074 (3) Dimensions of Citizenship in the US and the EU

Studies theories and problems related to citizenship in the US and the EU. This includes rights and restrictions of citizenship, issues of immigration, multicultural citizenship, globalization and citizenship. In the EU the relation between member nation citizenship and EU citizenship is a special problem. Examines how the US and EU compare. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Political Science | Political Theory

PSCI-3082 (3) Political Systems of Sub-Saharan Africa

Analyzes post-independence and post-Cold War change in sub-Saharan Africa and provides intensive case studies of selected countries exemplifying each type with South Africa seen as a special case. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

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Courses

Search by College, Department & Category

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PSCI-1101 (3) The American Political System

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Approved for GT-SS1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: contemporary societies or United States context.

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-2481 (3) Introduction to the Legal Process

Covers basic legal concepts and processes emphasizing the American system. Gives special attention to political functions of law. Recommended as preparation for PSCI 4241 and 4251. Prereq., PSCI 1101.

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-3011 (3) The American Presidency

Covers constitutional and institutional foundations and historical development of the presidency; roles, powers, selection, recent modifications, and institutionalization. Uses lectures and class discussion. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-3021 (3) U.S. Campaigns and Elections

Introduces students to the subjects, techniques, and findings of Political Science research on campaigns and elections. Particular emphasis is placed on the study of voting, campaign effects, partisan coalitions, electoral rules, campaign finance, and the policy impact of elections. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Political Science | American

PSCI-3031 (3) Political Parties and Interest Groups

Highlights the practice of party politics in the United States, including the nature, structure, organization, and functions of political parties and interest groups. Analyzes interest group politics and political behavior. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3041 (3) The American Congress

Provides intensive examination of the role of Congress in American government, including congressional elections, representation, the organization of Congress, and congressional policy making. Examines larger context of congressional politics, including political parties, the president, and interest groups. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-3051 (3) Public Opinion and Political Behavior

Examines measurement of public opinion and evaluation of its impact on governmental policy formation, including survey research techniques and field work in opinion sampling. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3061 (3) State Government and Politics

Examines politics in the American states from a comparative and historical perspective. Considers major political actors---interest groups, citizens (direct democracy), and political parties, as well as central institutions, in the state political arena. Also focuses on major state public policy concerns. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3071 (3) Urban Politics

Examines the structure of political, social, and economic influence in urban areas. Focuses on the relationship of the political system to governmental, social, and economic institutions and the contemporary policy processes in American cities. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3091 (3) Politics of Social Movements

Examines theoretical and empirical research on social movements from a U.S. perspective. Considers why social movements arise, who participates in them, the tactics they employ, obstacles they face, and their political impact. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-3101 (3) Black Politics

Examines structure of political, social, and economic influence in urban areas. Focuses on the relationship of political processes to governmental, social, and economic institutions and contemporary policy processes in American cities. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: human diversity.. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | American

PSCI-3171 (3) Government and Capitalism in the United States

Examines competing theoretical approaches to questions related to origins, development, and purposes of modern government in the United States; particular attention paid to impact of transformations in the underlying structure of the capitalist economy. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Political Science | American

PSCI-3191 (3) National Security Organization and Policy Making

Analyzes how the American governmental and political system is structured to define, select, and implement national security policies. Examines roles of the president, Congress, bureaucracy, interest groups, and other actors. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-3271 (3) Law and Society: The Interaction between Legal Institutions and Human Behavior

Examines relationship between human behavior and legal system, looking closely at the voluntary relationship between the citizen and the state, the use of law to balance economic liberty and equality, support for civil liberties, and procedural, distributive, and retributive justice. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-3301 (3) Gender, Sexuality and U.S. Law

Contemporary and historic overview of U.S. courts' treatment of sex and gender. Using the case method, examines policy issues including, but not limited to: same sex marriage and civil unions; privacy; affirmative action; abortion; reproductive technologies; and discrimination based on sex and sexual orientation in education and in the workplace. Prereq., WMST 2000 or PSCI 1101. Same as WMST 3300. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Political Science | American

PSCI-3311 (3) Gender and U.S. Politics: Protest, Polls and Policy

Provides an overview and critical examination of women as political actors within the United States. Students will examine the gendered components of citizenship, election, political office, and public policy. Furthermore, students will explore the ways in which gender intersects with class, race, ethnicity, sexual orientation, and other identities in U.S. politics. Same as WMST 3311.

College of Arts & Sciences | Political Science | American

PSCI-4081 (3) Icons of the American Republic

Examines the founding period of the United States through the events, political concepts and individuals depicted in the art exhibited in the U.S. Capitol Building in Washington, D.C. The course includes a visit to the U.S. Capitol Building, the floor of the U.S. House of Representatives, the floor of the U.S. Senate, and an exploration of the legislative process. Prereq., PSCI 1101 or 2012 or 2223 or 2004. Restricted to students with a minimum 3.4 GPA and 60 credit hours completed. PSCI 4081 and PRLC 4081 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Political Science | American

PSCI-4131 (3) Latinos and the U.S. Political System

Examines the political status and activities of Mexican Americans and other Latino groups (Cuban Americans and Puerto Ricans) in the U.S. Also covers Latino political attitudes and behaviors; Latino efforts to influence the major national, state, and local institutions of the American government; and public policy concerns of Latinos. Recommended prereq., PSCI 1101. Restricted to sophomores/juniors/ seniors. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Political Science | American

PSCI-4221 (3) Political Psychology

Examines the psychological foundations of political decision-making among citizens and elites. Considers the role of political psychology in explaining political behavior and outcomes at the individual and collective level. Prereq., PSCI 1101.

College of Arts & Sciences | Political Science | American

PSCI-4241 (3) Constitutional Law 1

Focuses on the nature and scope of American constitutional principles as developed by the U.S. Supreme Court: federalism, jurisdiction of the federal courts, separation of powers, the taxing power, and the commerce power. Involves the case method. Prereq., PSCI 1101 and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Political Science | American |
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PSCI-4251 (3) Constitutional Law 2

Continuation of PSCI 4241. Emphasizes war power, powers of the president, citizenship, the Bill of Rights, and the Civil War amendments. Involves the case method. Not open to freshmen. Prereq., PSCI 1101 or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | American |
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PSCI-4341 (3) Political Communication

Examines aspects of political communication as it applies to citizens, political decision makers, and specific public policies. Prereq., PSCI 1101 or instructor consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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PSCI-4701 (3) Symbolic Politics

Introduces uses and abuses of symbols as instruments and indicators of political change. Prereq., PSCI 1101. Recommended prereq., junior or senior standing.

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PSCI-4721 (3) Rethinking American Politics

Examines the political history and development of the United States of America. Looks at the particular policy choices we have made and examines the future political agenda. Prereqs., junior or senior standing and PSCI 1101 recommended. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Political Science | American |
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PSCI-4731 (3) Progress and Problems in American Democracy

Closely examines the various understandings of democracy, the arguments for and against democracy, and the progress of and prospects for democratic politics in the United States. Particular attention is paid to economic, social, and political developments in the United States that affect popular sovereignty, political equality, and liberty. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | American |
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WRTG-1100 (4) Extended First-Year Writing and Rhetoric

Extended version of WRTG 1150 that carries an additional hour of credit and is intended for students desiring more preparation and practice in college writing. Meets the same goals as WRTG 1150. Features one extra hour of small group work out of class. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 8 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) | [Program for Writing & Rhetoric](#)

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PSCI-1101 (3) The American Political System

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Approved for GT-SS1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: contemporary societies or United States context.

[College of Arts & Sciences](#) | [Political Science](#) | [American](#)

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ANTH-1105 (3) Exploring a Non-Western Culture: Tibet

Introduction to Tibetan culture, history, religion, and society from an anthropological perspective, including traditional as well as contemporary dimensions. Topics will include Tibetan Buddhism, politics, nomadism, gender, refugee issues, and the global Tibetan diaspora, all framed within the larger methods and concepts of cultural anthropology. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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CLAS-1110 (3) Muses and Man-eaters (1): The Literature of Ancient Greece

Surveys Greek authors whose works have most influenced Western thought: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, and Plato. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

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Courses

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PHYS-1300 (3) Experiment in Physics

Examines the roles of experiment in physics, using historical examples. Experiments provide a basis for scientific knowledge, test theories, call for new theories, give hints toward the mathematical form of theories, and provide evidence for the existence of entities involved in theories. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Physics

HIST-1308 (3) Introduction to Middle Eastern History

Interdisciplinary course that focuses on medieval and modern history of the Middle East (A.D. 600 to the present). Introduces the Islamic civilization of the Middle East and the historical evolution of the region from the traditional into the modern eras. Covers social patterns, economic life, and intellectual trends, as well as political development. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

MATH-1310 (5) Calculus, Stochastics, and Modeling

Calculus, probability, statistics, and discrete and continuous modeling are central to understanding the behavior of complex systems, ranging from gene networks and cells to brains and ecosystems. This course is similar to MATH 1300, but a greater emphasis is placed on relevance and applications to complex systems. Especially recommended for biology majors. Prereq., 2 years high school algebra, 1 year geometry, and 1/2 year trigonometry, or MATH 1150. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, APPM 1350, or ECON 1088. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Mathematics

APPM-1340 (3) Calculus 1 with Algebra, Part A

Studies selected topics in analytical geometry and calculus: rates of change of functions, limits, derivatives and their applications. APPM 1340-1345 together are equivalent to APPM 1350. The sequence APPM 1340-1345 is specifically designed for students whose manipulative skills in the techniques of high school algebra and precalculus may be inadequate for APPM 1350. Prereqs., 2 years high school algebra, 1 year geometry, 1 semester trigonometry. Credit not granted for this course and MATH 1150.

College of Arts & Sciences | Applied Mathematics

APPM-1345 (3) Calculus 1 with Algebra, Part B

Continuation of APPM 1340. Studies selected topics in calculus: derivatives and their applications, integration, differentiation and integration of transcendental functions. Algebraic and trigonometric topics are studied throughout, as needed. Prereq., APPM 1340. Credit not granted for this course and APPM 1350 or MATH 1300.

College of Arts & Sciences | Applied Mathematics

APPM-1350 (4) Calculus 1 for Engineers

Topics in analytical geometry and calculus including limits, rates of change of functions, derivatives and integrals of algebraic and transcendental functions, applications of differentiations and integration. Prereqs., 2 years high school algebra, 1 year geometry, and 1/2 year trigonometry; or approval by faculty advisor. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, APPM 1345, or ECON 1088. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences | Applied Mathematics

CHEM-1351 (5) Honors General Chemistry 1

Lect. and lab. Principles of chemistry and their applications are covered in a comprehensive manner (honors level) in this low-enrollment freshman course. Lectures include topics not covered in CHEM 1113/1114-1133/1134. The laboratory experience is more extensive; therefore, the CHEM 1351-371 sequence is highly recommended for well-prepared students who intend to major in chemistry, chemical engineering, physics, molecular biology, or related areas. Prereqs., one year high school chemistry; four years of high school math and/or a high score on the SAT or ACT math exam and one year of high school physics. Credit not granted for this course and CHEM 1113/1114, 1221, 1251, and CHEN 1211. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Chemistry

APPM-1360 (4) Calculus 2 for Engineers

Continuation of APPM 1350. Focuses on applications of the definite integral, methods of integration, improper integrals, Taylor's theorem, and infinite series. Prereqs., APPM 1350 or MATH 1300 (min. grade C-). Credit not granted for this course and MATH 2300.

College of Arts & Sciences | Applied Mathematics

CHEM-1371 (5) Honors General Chemistry 2

Lect. and lab. Continuation of CHEM 1351. Prereq., CHEM 1351 (min grade C-). Credit not granted for this course and CHEM 1131, 1133/1134 or 1271. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of CHEM 1351 (minimum grade C-).

College of Arts & Sciences | Chemistry

ARSC-1400 (1) MASP Coseminar: Chemistry 1 & 2

Supplements and strengthens student experiences in chemistry. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARTH-1400 (3) History of World Art 2

Surveys major art styles from about 1600 to the present, including Europe, Asia, the Islamic world, the Americas, and tribal arts. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Credit not granted for this course and FINE 1409. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

FREN-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as ITAL 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | French & Italian | French

ITAL-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as FREN 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | French & Italian | Italian

PHIL-1400 (3) Philosophy and the Sciences

Considers philosophical topics and concepts related to the natural sciences, such as science and pseudo-science; scientific method; the nature of explanation, theory, confirmation, and falsification; the effect of science on basic concepts like mind, freedom, time, and causality; ethics of experimentation; and the relation of science to society. Approved for GT-AH3. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Philosophy

ESLG-1410 (3) Academic English Skills for International Students

Provides instruction and practice to improve academic speaking and writing skills for effective participation in U.S. universities. Speaking includes accent reduction and effective communication through oral activities and recordings. Writing addresses development of paragraphs and full-length papers, including organization, grammar, vocabulary, incorporating ideas of others, and citing sources appropriately. Instructor feedback helps students improve fluency in both speaking and writing. Restricted to non-native speakers of English. Credit not granted for this course and ESLG 1130 or ESLG 1210.

College of Arts & Sciences | Linguistics

MATH-1410 (3) Mathematics for Secondary Educators

Assists students in meeting state mathematics certification requirements. Topics include problem solving, number systems, geometry and measurement, probability and statistics. Enrollment is restricted to students already admitted to or intending to apply for admission to the secondary teacher education program. Prereqs., one year high school algebra, one year geometry. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills. Prerequisites: Restricted to PRED, EDEL, EDEN, EDSS, EDSC, EDMU, EDSP, EDFR, EDGR, EDIT, EDJP or EDLT Students only.

College of Arts & Sciences | Mathematics

ARSC-1420 (1) MASP Coseminar: Introduction to EEB

Designed to supplement and strengthen student experiences in EBIO 1210 and 1220. Allows particularly gifted students an opportunity to extend their understanding of the subject and possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1432 (1) MASP Coseminar: Economics

Designed to supplement and strengthen student experiences in microeconomics. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in social science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1440 (1) MASP Coseminar: Mathematics

Offers an unusual and essential opportunity for students to receive small-group enrichment and reinforcement. Supplements and strengthens student experiences in mathematics, allowing particularly gifted students an opportunity to extend their understanding of the subject in a supportive environment, and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

PHIL-1440 (3) Introductory Logic

Introductory study of definition, informal fallacies, and the principles and standards of correct reasoning. Provides practice in analyzing, evaluating, and constructing frequently encountered types of arguments. Does not fulfill major requirement in logic.

College of Arts & Sciences | Philosophy

ARSC-1460 (1) MASP Coseminar: Introduction to Mcd Biology

Supplements and strengthens student experiences in MCDB 1150 and 2150. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1480 (1) MASP Seminar: Exploration of Public Discourse through the Social Sciences

Fosters an appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, and outside activities illustrate the interconnections between different bodies of knowledge. Emphasizes relationships between the humanities/social sciences and the real world. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1490 (1) MASP Seminar: Activating the Humanities and Social Sciences

Building on ARSC 1480, enhances students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentation, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is on actively using knowledge of humanities and social sciences in a variety of ways. Prereq., ARSC 1480. May be repeated up to 2 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

ARSC-1492 (1-3) MASP Research Seminar

Building on ARSP 1490, this course seeks to enhance students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentations, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is placed on actively using knowledge of humanities and social science in a variety of ways. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Arts & Sciences Admin | Miramontes Arts & Sciences Pgr

BAKR-1500 (3) Colorado: History, Ecology, and Environment

Studies the Colorado environment from multiple aspects of history and ecology. Presents historical events in their environmental context and examines lingering environmental consequences. Presents major habitats within Colorado and relates their historical and present uses. Lecture and field trips. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Baker Residential Academic Program

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MATH-1110 (3) The Spirit and Uses of Mathematics 1

For prospective elementary teachers. Includes a study of problem-solving techniques in mathematics, the uses and role of mathematics in our society, and the structure of our familiar number systems. Additional topics are chosen from number theory, ancient numeration systems, computer sciences, modern geometry and algebra and elementary logic. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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CHEM-1113 (4) General Chemistry 1

Lect., rec. Intended for first-semester students whose academic plans require advanced work in chemistry. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1114. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEM 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

[College of Arts & Sciences](#) [Chemistry](#)

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Courses

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HIST-1113 (3) Introduction to British History to 1660

Deals with Roman, medieval, and early modern periods. Covers the demographic, economic, and social patterns, political and religious developments, and cultural changes that contributed to the formation of the English nation. Formerly HIST 2103. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[Europe: Specific Countries](#)

HIST-1123 (3) Introduction to British History Since 1660

Deals with the period from the 17th century to the present. Political, economic, social, and imperial developments that contributed to creation of the modern industrial and democratic state are the major issues covered. Formerly HIST 2123. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[Europe: Specific Countries](#)

HIST-3113 (3) Seminar in Medieval and Early Modern English History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

[College of Arts & Sciences](#)
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HIST-3133 (3) Seminar in Britain since 1688

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-3713 (3) Seminar in Russian History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-3843 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4013 (3) English Constitutional History to 1688

Examines the origins and developments of English legal and political institutions, including kingship, the common law, procedure, and the court and jury system from the Anglo-Saxon period to the 17th century. Emphasizes the implications of these institutions for the development of contemporary American and English legal systems. Prereq., HIST 1010, 1030, 2103 or 2543.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4053 (3) Britain and the Empire, 1688--1964

Examines the external polity of Great Britain from 1688 to 1964 in Europe, the East, Africa, and the Americas. Same as HIST 5053. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4063 (3) Women in Victorian England

Examines changing roles and status of women in a period of expansion. Studies the impact of industrialization on working women, sexuality, family planning, expansion of women in education, politics and the professions, the single women crisis, and women's rights. Restricted to sophomores/juniors/seniors. Same as WMST 4063.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4083 (3) Revolution and Nationalism in Modern Ireland

Surveys Irish nationalist movements since the eighteenth century, treating constitutional nationalism, revolutionary republicanism, and Gaelic cultural movements while also examining the development of Unionism in Ulster as a response to political and cultural nationalism. Emphasizes the political, religious, and cultural roots of the current sectarian crisis in Northern Ireland, and analyzes that crisis up to the present day. Prereqs., HIST 1020, 1040, 2123, or 4053. Credit not granted for this course and HIST 2513. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4123 (3) Medieval England

Treats the major developments in English history from the Anglo-Saxon period through the 15th century. Emphasizes late medieval English society during the 13th and 14th centuries. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4133 (3) Tudor England

Deals with the history of England from 1485 to 1603. Examines patterns of daily life, the impact of the Reformation and the Renaissance, and the development of Parliament and the monarchy under the Tudor rulers, especially Henry VIII and Elizabeth. Prereqs., HIST 1010, 1030, or 2103. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4143 (3) Stuart Britain

Covers the history of the British Isles from 1603 to 1714, the era of the English Civil War and the Glorious Revolution. Traces economic and social relationships, cultural change, and religious and political conflict under the Stuart monarchs. Prereq., HIST 1010, 1030, 2103, or 2123. Restricted to sophomores, juniors, and seniors.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4153 (3) Emergence of Modern Britain, 1688-1852

Surveys British history from the Revolution of 1688 to the Great Exhibition in 1851. Topics include creation of the United Kingdom, traditional popular culture, birth of a consumer society, the British Enlightenment, the Evangelical Revival, loss of the American colonies, imperial expansion in Asia, war with Revolutionary and Napoleonic France, the Industrial Revolution, and the impact of utilitarianism and political radicalism. Prereq., HIST 1020, 1040, 2103, or 2123. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4223 (3) Revolutionary France

Examines the two questions most fundamental to any scholarly understanding of the French Revolution: What were the political, social, and cultural causes of revolution in 1789? Why did the French Revolution become increasingly radical after 1789? HIST 4223 is restricted to juniors and seniors. HIST 4223 and 5223 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4233 (3) History of France since 1815

Examines the ongoing struggle between the revolutionary and counter-revolutionary traditions of France and how it shaped the political history and affected the social, cultural, and intellectual character of the nation from 1815 to the present. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4313 (3) History of Italy

Survey of political, social, and intellectual history of Italy and its people. Taught in English. Same as ITAL 4250. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4413 (3) German History to 1849

Cultural, political, and social history of Germany up to and including the revolutions of 1848. Emphasizes the political history of Prussia and such cultural phenomena as German romanticism. Prereq., HIST 1020. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4423 (3) German History Since 1849

Cultural, political, and social history of Germany since 1849. Emphasizes German unification, Bismarkian foreign policy, the rise of neoromanticism, Weimar politics, and the rise of national socialism. Prereq., HIST 1020. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4433 (3) Nazi Germany

Focuses on the political, social, cultural, and psychological roots of national socialism, with the nature of the national socialist regime, and those politics and actions that came directly out of its challenge to values central to Western civilization. Studies how Nazism came out of this civilization. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4623 (3) History of Eastern Europe Since 1914

Examines the struggle of nations of eastern Europe to assert their independence, from break-up of the imperial system at the end of World War I, through the Soviet bloc that emerged after World War II, to the establishment of democratic governments after the 1989 revolutions. Prereq., HIST 1020 or 1040 or PSCI 2012. Restricted to sophomores, juniors or seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4643 (3) Poland since the 16th Century: Democracy and Nation

Traces themes of democracy and nationalism in Polish history from the "Noble Republic" of the early modern era, through the struggles with fascism and communism in the 20th century, to Poland's current position on the eastern edge of Western Europe. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4713 (3) History of Russia through the 17th Century

Introduces the history and culture of Russia from the 9th to the 17th century. Emphasizes selected topics in social, economic, religious, and cultural history, including the formation of the Russian state conversion to Orthodox Christianity, the Mongol invasion, and the reign of Ivan the Terrible. Restricted to juniors and seniors.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4723 (3) Imperial Russia

Surveys major cultural, social, and economic changes from the reign of Peter the Great through World War I. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4733 (3) The Russian Revolution and the Soviet Regime

Covers in detail the significant social, economic, and political events of Soviet Russia from the February Revolution of 1917 to the present. Prereq., junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

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CLAS-1115 (3) Masterpieces of Greek Literature in Translation

Students read about mythological heroes and historical individuals from Achilles to Socrates in Greek literature. Class discusses why the Greeks told stories the way they did and what those stories might have meant to them and might mean to us. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
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[Honors](#)

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HIST-1113 (3) Introduction to British History to 1660

Deals with Roman, medieval, and early modern periods. Covers the demographic, economic, and social patterns, political and religious developments, and cultural changes that contributed to the formation of the English nation. Formerly HIST 2103. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Europe: Specific Countries](#)

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CHEM-1114 (1) Laboratory in General Chemistry 1

Lab. Intended for first-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1113. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1113. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEM 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

[College of Arts & Sciences](#) | [Chemistry](#)

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ANTH-1115 (3) The Caribbean in Post-Colonial Perspective

Introduces the student to the varied peoples and cultures in the Caribbean region, emphasizing the historical, colonial, and contemporary political-economic contexts of their social structure and cultural patterns. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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CLAS-1115 (3) Masterpieces of Greek Literature in Translation

Students read about mythological heroes and historical individuals from Achilles to Socrates in Greek literature. Class discusses why the Greeks told stories the way they did and what those stories might have meant to them and might mean to us. Approved for arts and sciences core curriculum: literature and the arts.

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ANTH-1120 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ETHN 1123. Approved for arts and sciences core curriculum: human diversity.

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CLAS-1120 (3) Muses and Man-Eaters (2): The Literature of Ancient Rome

Surveys ideas and culture of the Romans through a study of representative literature: comedy, tragedy, history, philosophy, oratory, the novel, lyric, epic, and didactic poetry. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) | [Classics](#) | [Literature, Culture, & Thought](#)

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MATH-1120 (3) The Spirit and Uses of Mathematics 2

Continuation of MATH 1110. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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ETHN-1123 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ANTH 1120. Formerly AIST 1125. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

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HIST-1123 (3) Introduction to British History Since 1660

Deals with the period from the 17th century to the present. Political, economic, social, and imperial developments that contributed to creation of the modern industrial and democratic state are the major issues covered. Formerly HIST 2123. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [History](#) | [Europe: Specific Countries](#)

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MATH-1130 (3) Mathematics from the Visual Arts

Introduces mathematical concepts through the study of visual arts. Credit not granted for this course and QRMS 1130. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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CHEM-1133 (4) General Chemistry 2

Lect., rec. Intended for second-semester students whose academic plans require advanced work in chemistry. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1134. Credit not granted for this course and CHEM 1131, 1271 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

[College of Arts & Sciences](#) | [Chemistry](#)

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CHEM-1134 (1) Laboratory in General Chemistry 2

Lab. Intended for second-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1133. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1133. Credit not granted for this course and CHEM 1131, 1271, or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

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ANTH-1135 (3) Exploring a Non-Western Culture: TBA

Examines the geography, kinship, politics and religious values of a particular non-Western people in historical and contemporary context through an anthropological perspective. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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ANTH-1140 (3) Exploring a Non-Western Culture: The Maya

Explores the culture of the Maya of Central America, emphasizing their material adaptations, social organizations, ideals and values, and artistic achievements in the past and the present. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Anthropology](#)

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CLAS-1140 (3) Bread and Circuses: Society and Culture in the Roman World

Surveys the outstanding achievements of Roman culture and society as reflected in literature; philosophy and art; private and official religion; and legal and political thought. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Classics](#) | [Literature, Culture, & Thought](#)

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ANTH-1145 (3) Exploring a Non-Western Culture: The Aztecs

Explores the culture of the Aztec people of Central Mexico: their subsistence, society, religion, and achievements, as well as the impact of the Aztec empire in Mesoamerica. Also reviews the clash of a non-western society with the western world with the arrival of the Spanish conquistadors. Approved for arts and sciences core curriculum: human diversity.

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ENGL-1500 (3) Masterpieces of British Literature

Introduces students to a range of major works of British literature, including at least one play by Shakespeare, a pre-20th century English novel, and works by Chaucer and/or Milton. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

FREN-1500 (3) Literature and Politics in the Age of Enlightenment

Introduces political dimensions of 18th century French literature. Surveys political and social preoccupations that manifest themselves across genres (novels, scientific treatises, dialogues, erotic literature, etc.). Examines contributions made by 18th century French writers to the sociological and political imagination of Western tradition. Taught in English.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

GRMN-1500 (3) German for Reading Knowledge

Designed especially for graduate students. Emphasizes analytical skills for acquiring reading proficiency in specialized and technical German in one's field of research. Recommended for pass/fail registration. Does not satisfy the arts and sciences foreign language requirement. Does not count towards the German major.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GSAP-1500 (1) Community Engagement

Facilitates community-level service and volunteer opportunities in the University, Boulder-Denver area, and Colorado communities for first-year students. Participants will learn how to conduct basic community research and will design their own volunteer, service, or internship plan in conjunction with the instructor and the class, targeting a university center, community nonprofit, local business, government agency, or international institution.

College of Arts & Sciences | Global Studies Residential Academic Program

ITAL-1500 (3) That's Amore: Introduction to Italian Culture

Introduces students to representations of Italian society that have persisted through the ages. The course readings allow students to better understand how certain stereotypes about Italian society (e.g., Latin lover, Mafia) were born and persist in the present. Taught in English. Approved for GT-AH2. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | French & Italian | Italian

LIBB-1500 (3) The Dialogue of Art and Religion

Focuses on interdisciplinary study of visual art from diverse cultural traditions. Addresses role and training of the artist; aesthetic issues related to the object; the audience or viewer for which the work is intended; and the context of the work, especially religious and social history. Cultural traditions include Russian Orthodox icons, Himalayan Buddhist thangkas, and Navaho sandpaintings. (In different semesters, the content may shift to include other traditions such as Islamic or Celtic manuscripts, or Haida totem poles.) Approved for arts and sciences core curriculum: ideals and values. Restricted to Libby RAP students. Prerequisites: Restricted to Libby Residential Academic Program students only.

College of Arts & Sciences | Libby Residential Academic Program

LING-1500 (3) Understanding Grammar

Presents fundamentals of grammar in the Western tradition. Emphasizes making concepts and uses of grammar (as exemplified in English and closely related foreign languages) understandable to the nonspecialist.

College of Arts & Sciences | Linguistics

PHIL-1500 (3) Reading, Writing and Reasoning

Teaches students how to write argumentative papers. Each seminar will focus narrowly on some controversial topic. For example, one seminar might focus on the existence of God, whereas another might question whether we have free will. In all cases, a significant portion of the course will be devoted to learning how to write cogent argumentative papers about controversial topics. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Philosophy

FILM-1502 (3) Introduction to Film Studies

Introduces the technical and aesthetic principles behind the production, consumption, analysis, and interpretation of films. The purpose of this class is to help us understand and think about movies critically, as technological, cultural, and artistic products. We will study films in different contexts and discuss the importance of movies as cultural expression.

College of Arts & Sciences | Film Studies | Genre and Movements

ARTH-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece, and Rome, examining various ancient approaches to power, religion, death, and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as CLAS 1509. Approved for arts and science core curriculum: historical context or literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

CLAS-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece and Rome, examining various ancient approaches to power, religion, death and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as ARTH 1509. Approved for arts and sciences core curriculum: historical context or literature and the arts.

College of Arts & Sciences | Classics | Art and Archaeology

INVS-1513 (3) Civic Engagement: Using the Electoral Process as a Tool for Social Change

Designed to educate and inspire civic engagement primarily in the area of electoral politics. Examines various explanations of why people participate in the electoral process and whom they choose to support. Develops the practical skills necessary to participate successfully in the electoral arena. Through a service component, the course provides experience working on a campaign and mobilizing others to participate in the electoral process.

College of Arts & Sciences | INVST Community Studies

ARTS-1514 (3) Sculpture for Non-Majors

Offers an orientation involving three-dimensional form and application. Studies expressive problems based on non-objective form relationships in various sculptural materials. May not be repeated.

College of Arts & Sciences | Art & Art History | Sculpture

HIST-1518 (3) Introduction to South Asian History to 1757

Introduces the history of South Asia, providing a general acquaintance with the narratives and interpretations of ancient and medieval history of the Indian subcontinent from the rise of the Indus Valley Civilization in 3500 BCE to the end of the Mughal Empire in 1757 CE. It is intended for students with little or no prior knowledge of the region. Credit not granted for this course and HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

INVS-1523 (3) Civic Engagement: Democracy as a Tool for Social Change

Educates and inspires students for civic engagement by exploring democratic values and the rights and responsibilities of citizenship. Develops theoretical knowledge and practical skills for participating in a diverse democratic society, especially at the state level, through analyzing legislative issues, making policy recommendations, and advocating for change. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | INVST Community Studies

HIST-1528 (3) Introduction to South Asian History since 1757

Introduces the history of modern South Asia from 1757 to the present. Examines themes such as the nature of British colonial state formation in South Asia, social transformation under British rule, modes of anticolonial resistance movements, particularly Mahatma Gandhi's nonviolent civil disobedience movement, Muslim nationalism and the formation of Pakistan, and current political conflicts involving India, Pakistan and Afghanistan. Formerly HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

FARR-1561 (1) Nonviolence for Everyday: Meditation and Other Helpful Habits

Focuses on the challenge of achieving nonviolence on a day-to-day basis by maintaining a peaceful, focused frame of mind. Explores ways to train the mind, including methods that may aid healing.

College of Arts & Sciences | Farrand Residential Academic Program

LDSP-1561 (1) Compassionate Leadership and Mindfulness

Explores various practices and traditions that lead to a balanced, physical, mental, emotional, and spiritual life critical to the practice of effective leadership. May be repeated up to 3 total credit hours.

College of Arts & Sciences | Chancellor Leaderships Residential Academic Program

FARR-1562 (3) Gandhi's Satyagraha: Love in Action for Humans and Other Creatures

Class texts and films explore social justice and structural violence in regard to humans, animals, and the environment in the light of a Gandhian approach to these issues. Outreach work in the community is included.

College of Arts & Sciences | Farrand Residential Academic Program

LDSP-1571 (1) Topics in Leadership

Examines the complex nature of leadership by applying knowledge and practice to contemporary and social issues. May be repeated up to 3 total credit hours.

College of Arts & Sciences | Chancellor Leadership Residential Academic Program

ARSC-1600 (1) The University of Colorado Experience

Provides an effective transition to the university by giving students a solid base for developing scholarship, citizenship, decision making, and involvement in their university community. Topics include academic and campus resources, safety, health, and diversity.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

BAKR-1600 (3) Creating a Sustainable Future

Explores opportunities for moving toward a sustainable 21st century U.S. society. Evaluates socio-economic institutions, values and forces in late 20th century U.S. society that are unsustainable, given 21st century environmental, economic and social challenges. Contemplates societal progress from reflective perspectives and leading visionaries, including CU-generated documents. Explores actions you can adopt now that empower you to live a more sustainable lifestyle. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Baker Residential Academic Program

COMM-1600 (3) Group Interaction

Covers basic theories, concepts, and characteristics that underlie face-to-face interactions in interpersonal, small group, and organizational settings. Activities stress the development of both task and relational skills in these settings. Required for COMM majors.

College of Arts & Sciences | Communication

ENGL-1600 (3) Masterpieces of American Literature

Enhances student understanding of the American literary and artistic heritage through an intensive study of a few centrally significant texts, emphasizing works written before the 20th century. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | English | General Literature & Language

ITAL-1600 (3) Strategies of Fear: Introduction to Italian Fantastic Literature

Traces the development of the fantastic theme in Italian Literature from its origins (late nineteenth century) to contemporary times. Analyzes the modes of reception and appropriation of non-Italian gothic and fantastic narrative traditions through which Italian writers have subverted the national literary model proposed by realist narrative. Approved for arts and sciences core curriculum: literature and the arts. Taught in English.

College of Arts & Sciences | Italian | Special Curricula

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ANTH-1150 (3) Exploring a Non-Western Culture: Regional Cultures of Africa

Explores a small number of cultures in a specific sub-region of Africa from an integrated holistic viewpoint, emphasizing material adaptations, social patterns, ideas and values, and aesthetic achievements. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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MATH-1150 (4) Precalculus Mathematics

Develops techniques and concepts prerequisite to calculus through the study of trigonometric, exponential, logarithmic, polynomial, and other functions. Prereq., one and a half years of high school algebra. Students having credit for college algebra and trigonometry may not receive additional credit for MATH 1150. Students with credit for college algebra receive only 2 additional hours of credit for MATH 1150. Similar to MATH 1000, 1010, 1020, 1011, 1021, 1030, and 1040. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) | [Mathematics](#)

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MCDB-1150 (3) Introduction to Cellular and Molecular Biology

Covers biologically important macromolecules and biological processes, together with an introduction to cell structure, function, and physiology. Provides the foundation for advanced MCDB courses to majors, and a rigorous overview of modern biology to nonmajors. MCDB 1151 must be taken concurrently by MCDB and biochemistry majors and prehealth science students. Prereq., high school chemistry and algebra. Coreq., MCDB 1151 for majors. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and science core curriculum: natural science.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

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WRTG-1150 (3) First-Year Writing and Rhetoric

Rhetorically informed introduction to college writing. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) | [Program for Writing & Rhetoric](#)

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MCDB-1151 (1) Introduction to Cell and Molecular Biology Lab

Offers one two-hour lab per week designed to acquaint students with research techniques and concepts in molecular and cellular biology. Topics include cell structure, function, physiology, and recombinant DNA. MCDB 1150 must be taken concurrently. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and sciences core curriculum: natural science.

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MCDB-1152 (1) Problem Solving Co-Seminar for Introduction to Molecular and Cellular Biology

Uses problem solving and other interactive group work to aid student learning in co-requisite course MCDB 1150. Students will work in small groups on learning and practicing how to solve difficult conceptual problems, as well as using hands-on activities and concept mapping to help learn content. Coreq., MCDB 1150.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

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ANTH-1160 (3) The Ancient Egyptian Civilization

Emphasizes the origin of the Egyptian culture, its importance, and its impact on other cultures. In addition, the different points of view of various scholars are discussed with a comparative study of the ancient Egyptian culture and modern culture of Egypt and the Middle East. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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MCDB-1161 (2) From Dirt to DNA: Phage Genomics Laboratory I

Provides laboratory experience working on a bacteriophage genomics research project. Students will study novel bacteriophage they isolate from the environment. Topics covered include phage biology, bacteria and phage culturing and amplification, DNA isolation, restriction digest analysis, agarose gel electrophoresis, and electron microscopy. Coreq., MCDB 1150 or successful completion of 2 semesters of General Biology AP credit.

[College of Arts & Sciences](#) | [Molecular, Cellular, & Development Biology](#)

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ANTH-1170 (3) Exploring Culture and Gender through Film

Uses films and written texts to explore the concepts of culture and gender, as well as ethnicity and race. By looking at gender, ethnicity, and race cross-culturally, students will know how these concepts are constructed in their own society, as well as in others. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) | [Anthropology](#)

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ANTH-1180 (3) Maritime People: Fishers and Seafarers

Explores important milestones in the development of human societies and cultures that live from the sea. Emphasizes the evolution of maritime adaptations associated with fishing and seafaring from more than 10,000 years ago through the present. Approved for arts and sciences core curriculum; historical context.

[College of Arts & Sciences](#) | [Anthropology](#)

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ANTH-1190 (3) Origins of Ancient Civilizations

Examines origins of the world's first civilizations in Mesopotamia, Egypt, the Indus Valley, Mesoamerica, and the Andes. Covers archaeology of ancient cities, trade, economy, politics, warfare, religion, and ideology. Seeks insights into general processes of cultural evolution. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) | [Anthropology](#)

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ANTH-1200 (3) Culture and Power

Compares contemporary sociopolitical systems across cultures, from non-Western tribal groups to modern states. Introduces students to anthropological approaches for understanding and analyzing political forces, processes, and institutions that affect cultures such as colonialism, warfare, violence, ethnicity, migration, and globalization. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) | [Anthropology](#)

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FREN-1200 (3) Medieval Epic and Romance

Covers the most important works of medieval literature, in English translation. Among the texts studied are the Nibelungenlied, the Song of Roland, and Arthurian romances, including the stories of Lancelot and Guinevere and Tristan and Isolde. Offers a general introduction for nonmajors to medieval literature and society. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

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SCAN-1202 (3) Tolkien's Nordic Sources and the Lord of the Rings

Examines the Nordic aspect of J.R.R. Tolkien's work, especially *The Lord of the Rings*. The course concentrates on the Nordic saga tradition, mythology, folklore and fairy tales Tolkien used as his sources. Students will explore the transformations of these sources from prehistoric times to contemporary cinematic adaptations, while paying special attention to cultural appropriations, national revisions, and political alterations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Nordic Study Course English](#)

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SCAN-1202 (3) Tolkien's Nordic Sources and the Lord of the Rings

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[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Nordic Study Course English](#)

SCAN-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Nordic Study Course English](#)

SCAN-2201 (3) Introduction to Modern Nordic Culture and Society

Provides a comprehensive introduction to modern Nordic culture and society. Surveys the history of Nordic countries and examines their culture using art, architecture, literature, and film. Studies social issues, environmental concerns, and political patterns. In profiling aspects of culture and society unique to Nordic countries, students arrive at a conception of a collective Nordic identity. Taught in English. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Nordic Study Course English](#)

SCAN-2202 (3) The Vikings

Examines the social, cultural, technological, and artistic backgrounds of the Viking experience, charting the history of the period both within the Nordic region and Europe as well as North America. Additionally, looks at some of the lasting influences of the Vikings on Western civilization. Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SCAN-2900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SCAN-3201 (3) Contemporary Nordic Society and Culture

Explores contemporary Nordic culture and society with special focus on Iceland. Emphasis is on the relationship between historical, geographic, artistic, and political forces in Iceland and their effects on culture and society. Provides insight into the life and attitudes of contemporary Icelanders and stresses their place in the global culture of today. Taught in English. Recommended prereq., SCAN 2201. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SCAN-3202 (3) Old Norse Mythology

Surveys the mythology and heathen cult practices of the Old Norse world. Students learn to read mythological texts and study the major gods (Odin, Thor, Frey and Freyja, among others), along with other mythological beings. The course examines and evaluates evidence for beliefs and cult practices in texts, art, archeological finds, and other sources. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SCAN-3203 (3) 19th & 20th Century Nordic Literature

Examines the Nordic region's influence on social realism, expressionism, and postwar literature, including such themes as women in society, nature and industrialization, and identity and angst. May include works by Ibsen, Strindberg, Dinesen, and Nobel Prize winners Lagerlof, Hamsun, Undset, and Lagerkvist. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SCAN-3204 (3) Medieval Icelandic Sagas

Advanced introduction to medieval Icelandic saga with readings in the family, outlaw, skald, and legendary sagas as well as the main scholarly approaches to this unique literature. Topics include honor, blood feud, fate, sexuality/gender, oral composition, and legend. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English |
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SCAN-3205 (3) Scandinavian Folk Narrative

Introduces the rich tradition of Scandinavian oral narrative. Looks at relationships between the various genres of oral narrative and their historical, social, and cultural contexts. Genres studied may include ballad, fairy tale, rural legend, and urban legend. Explores various interpretive methodologies. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English |
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SCAN-3206 (3) Nordic Colonialisms

Examines Nordic colonial enterprise and the relationship between the Scandinavian center and colonial peripheries from the Arctic to the Caribbean, Africa, and India. Studies colonial and postcolonial cultures, and postcolonial criticism and theory. Taught in English. Approved for arts and sciences core curriculum: human diversity.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English |
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SCAN-3208 (3) Women in Nordic Society: Modern States of Welfare

Examines the role and status of women and marginalized social classes in the Nordic countries, whose societies have been heralded as egalitarian models since the twentieth century. Texts include a variety of media, from literature to sociological works to artifacts of political and popular culture. Taught in English. Same as WMST 3208. Approved for arts and sciences core curriculum: human diversity.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English |
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SCAN-3209 (3) Contemporary Nordic Literature and Film

Advanced introduction to contemporary Nordic literature and film. Readings/screenings of recent translated Nordic texts and films, presenting a broad spectrum of contemporary issues, along with current critique and theoretical approaches. Topics: history, culture, translation, gender/sexuality, national identity, minority issues, etc. Taught in English.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English |
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SCAN-3506 (3) Scandinavian Drama

Examines the many contributions of Scandinavian dramatists to world theater from the 18th century to the present. With emphasis on Holberg, Bjornson, Ibsen, Strindberg, and Bjorneboe, surveys Enlightenment comedy, national romanticism, realism, naturalism, symbolism, expressionism, and Brechtian epic theater. Taught in English. Approved for arts and sciences core

curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

SCAN-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | Nordic Study Course English

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LIBB-1600 (3) Gender and Film

Explores a wide variety of cinematic forms and styles and discusses the treatment of femininity, masculinity, sexuality, and how gender is represented as an artifact of mass culture. Although the course title privileges issues of gender, the course also includes the study of issues of race and ethnicity in film and the inherent connections between the cinematic representations of race and gender. Approved for GT-AH1. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) | [Libby Residential Academic Program](#)

PHIL-1600 (3) Philosophy and Religion

Philosophical introduction to some of the central concepts and beliefs of religious traditions, focusing particularly on the question of the existence of God and on the relation between religious beliefs and moral beliefs. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) | [Philosophy](#)

GRMN-1601 (3) Germany Today

Introduces the culture of contemporary German-speaking central Europe, examining historical processes, social and political patterns, and the intellectual and artistic responses to problems of the 20th and 21st centuries. Taught in English. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) | [Germanic & Slavic Languages & Literature](#) | [German Courses Taught in Engl](#)

GRMN-1602 (3) Metropolis and Modernity

An interdisciplinary introduction to the modern industrial city in Europe and the USA, with particular attention to the representation of urbanism in the visual arts. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | Germanic & Slavic Languages & Literature | German Courses Taught in Engl

FREN-1610 (3) How to Be French, 1: The Ancien Regime

Explores medieval and early modern French culture in the widest sense, encompassing masterpieces of French literature, architecture, and visual art as a key to the habits, customs, and practices of everyday life. Major themes are "living and dying," "heroes, villains, and kings," "courtliness, civility, and the art of love," and "crafty little guys." Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | French & Italian | French

HIST-1618 (3) Introduction to Chinese History to 1644

Introduces students to the history of China from Neolithic period to Ming period (1368-1644). Investigates the social patterns, gender relations, economic structure, intellectual trends, and political developments of China. Pays special attention to China's long-standing interaction with the rest of the world, which played a crucial role in the historical development of Chinese society. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

FREN-1620 (3) How To Be French? 2: Modernity

Introduces students to French culture in its widest sense and in particular to reflect on major social and cultural contradictions inherited from the French Revolution, which still define "Frenchness" today. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences | French & Italian | French

RLST-1620 (3) Religious Dimension in Human Experience

Studies religion as individual experience and social phenomenon. Examines varieties of religious language (symbol, myth, ritual, scripture) and of religious experience (Asian, Western, archaic). Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Religious Studies

HIST-1628 (3) Introduction to Modern Chinese History

Introduces students to modern Chinese history and culture, from the 17th century to the present. The course considers the pertinent aspects of modern China, focusing on its social patterns, economic structure, intellectual trends, and political developments. Similar to HIST 1608. Credit not granted for this course and HIST 1608. Approved for arts and sciences core curriculum: historical context.

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| College of Arts & Sciences | History | World Areas: Specific Regions |
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FREN-1700 (3) Francophone Literature in Translation

Studies the literary expression of French-speaking peoples of Africa, the Caribbean, and Canada. Gives special attention to oral tradition, identity, question, and cultural conflict. Taught in English. Approved for GT-AH2.

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| College of Arts & Sciences | French & Italian | French |
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LIBB-1700 (3) The History of Communication from Caves to Cyberspace

Surveys the history, evolution, and nature of communication and communication technologies. Students learn about the ongoing media revolution and its broader context, considering the interdependence of communication, culture, and society. They critically examine utopian, deterministic, and pessimistic arguments about the influence of new technologies and arts. Course combines lecture, discussion, and group work in a seminar format. Approved for arts and sciences core curriculum: historical context. Restricted to Libby RAP students. Prerequisites: Restricted to Libby Residential Academic Program students only.

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| College of Arts & Sciences | Libby Residential Academic Program |
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PHIL-1700 (3) Philosophy and the Arts

Considers philosophic questions involved in the analysis and assessment of artistic experiences and of the objects with which the arts, including the literary arts, are concerned.

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| College of Arts & Sciences | Philosophy |
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GRMN-1701 (3) Nature and Environment in German Literature and Thought

Critically examines titles in German literature and thought. Nature and environment are used to explore alienation, artistic inspiration, nihilism, exploitation, sexuality, rural versus urban, meaning of the earth, cultural renewal, identity and gender. This "Green" survey of German classics spans Romanticism's conception of nature as unconscious spirit to the politics and values of contemporary Germany's Green Party. Taught in English. Same as HUMN 1701. Approved for arts and sciences core curriculum: ideals and values.

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| College of Arts & Sciences | Germanic & Slavic Languages & Literature | German Courses Taught in Engl |
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HUMN-1701 (3) Nature and Environment in German Literature and Thought

Critically examines titles in German literature and thought. Nature and environment are used to explore alienation, artistic inspiration, nihilism, exploitation, sexuality, rural versus urban, meaning of the earth, cultural renewal, identity and gender. This "Green" survey of German classics spans Romanticism's conception of nature as unconscious spirit to the politics and values of contemporary Germany's Green party. Same as GRMN 1701. Approved for arts and sciences core curriculum: ideals and values.

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| College of Arts & Sciences | Humanities |
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HIST-1708 (3) Introduction to Japanese History

A broad interdisciplinary survey of the history of Japan from earliest times to the 20th century. Explores the development of political institutions, social structures, cultural and religious life, economic development, and foreign relations in an historical perspective. Approved for GT-H1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

ARTH-1709 (3) Freshmem Seminar: Critical Introduction to Art History

Provides a broad introduction to understanding and appreciating art and art history within a critical lecture seminar and discussion format. The focus of this course is a selected Particularity directed to nonmajors. Formerly FINE 1709. Approved for arts and science core curriculum: literature and the arts.

College of Arts & Sciences | Art & Art History | Art History

APPM-1710 (3) Tools and Methods for Engineering Computing

Designed for students with little or no programming background. Students learn procedural and object-oriented programming through development of games, simulations, and animations using Flash/ActionScript, VB/Excel, Java, MATLAB, and real-world applications. Activities are oriented toward smaller projects that address topics in beginning science, engineering, and mathematics courses. Students gain practical, applicable skills. Same as ATLS 1710.

College of Arts & Sciences | Applied Mathematics

ARSC-1710 (1) Calculus Bridge Course

Provides motivated pre-calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in pre-calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in high school mathematics. Coreq., MATH 1001/1021.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

ARSC-1720 (1) SASC Coseminar: Calculus Work Group

This 1-credit seminar provides motivated calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in pre-calculus mathematics. Recommended prereq., A/B average in pre-calculus sequence. Coreq., MATH1300.

College of Arts & Sciences | Arts & Sciences Admin | Special Curricula

FREN-1750 (3) French Colonialism: North Africa and the Middle East

Offers a general introduction to French and Francophone literature and visual arts (painting, photography, film) from the nineteenth century to the present depicting cultures and societies of the Middle East and North Africa. In English with English translations of French texts. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

PHIL-1750 (3) Philosophy through Literature

Introduces philosophy through literature. Selected novels, plays, and short stories that exemplify traditional problems in philosophy are read and discussed.

College of Arts & Sciences Philosophy

ARSC-1800 (3) Methods of Inquiry

Introduces students to methodologies used in different academic disciplines, e.g., how a paleographer dates a manuscript. Course is team-taught. Students must also enroll in two of four co-requisite course sections, all in different areas of the core curriculum. The co-requisite course sections are listed in the online Schedule Planner.

College of Arts & Sciences Arts & Sciences Admin Special Curricula

BAKR-1800 (3) Exploring Opportunities in the Natural and Environmental Sciences

Engaging students to explore and discover exciting internships, careers, and research opportunities in fields associated with natural science and environmental studies. The class will include seminars, lectures, student presentations, and the exploration of places like the Denver Zoo, natural science museums (Denver and CU campus), Mountain Research Station, Campus Greenhouse, Butterfly Pavillion and Rocky Mountain National Park.

College of Arts & Sciences Baker Residential Academic Program

COMR-1800 (3) Visual Literacy: Images and Ideologies

Explores the relationship between visual images and cultural values, including how we process visual information, the evolution of conventions in various media, common visual portrayals, and ethical issues. Restricted to students in the Communication Residential Academic Program. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Communication Residential Academic Program

ENGL-1800 (3) American Ethnic Literatures

Introduces significant fiction by ethnic Americans. Explores both the literary and the cultural elements that distinguish work by these writers. Emphasizes materials from Native American, African American, and Chicano traditions. Approved for arts and sciences core curriculum: human diversity.

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CLAS-4852 (1-3) Honors Thesis

[College of Arts & Sciences](#)
[Classics](#)
[Classical Philology](#)

CLAS-6952 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Classics](#)
[Classical Philology](#)

CLAS-7012 (3) Graduate Seminar

Topic specified in online Schedule Planner. May be repeated up to 9 total credit hours for different topics. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Classics](#)
[Classical Philology](#)

CLAS-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#) | [Classics](#) | [Classical Philology](#)

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PSCI-2012 (3) Introduction to Comparative Politics

Most countries confront a variety of common political problems, including how to gain popular support, what kinds of political institutions are most appropriate, and how to distribute burdens and benefits to different segments of the population. Concentrates on learning how to compare different political systems and provides illustrative examples from several countries in both the industrialized and nonindustrialized world. Approved for GT-SS1. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-3022 (3) Russian Politics

Examines the development of Russian politics from the late Soviet period to the present. Topics covered include political culture, democratic transition, economic reform, and social problems in Russia. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-3032 (3) Latin American Political Systems

Stresses different perspectives on Latin American politics and understanding key political actors and processes. Country focus varies. Prereq., PSCI 2012, IAFS 1000, IAFS major, Latin American studies major, or instructor consent. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-3052 (3) Women and Politics in Latin America

Examines ways Latin American women have engaged in politics and their participation in social movements, war, peace processes and elections. Focuses on why women "Do politics" in certain ways, the role of the State in women's politics, the (dis)advantages of various political strategies, and how political, economic and social changes have affected women's political opportunities and interests. Prereq., WMST 2000 or instructor consent. Recommended prereqs., WMST 2400, 2600, 3600 or 3730. Same as WMST 3650. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3062 (3) Revolution and Political Violence

Studies and evaluates alternative theoretical frameworks for the analysis of revolution and political violence. Theoretical material is firmly couched in case situations, such as ethnic, class, colonial, urban, racial, and religious conflicts. Prereq., PSCI 1101, 2012, or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3072 (3) Government and Politics in Southeast Asia

Surveys historical and contemporary forces shaping politics in Southeast Asia. Gives special attention to comparative political economy, including development strategies and transitions to democracy. Prereqs., PSCI 2012 or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3082 (3) Political Systems of Sub-Saharan Africa

Analyzes post-independence and post-Cold War change in sub-Saharan Africa and provides intensive case studies of selected countries exemplifying each type with South Africa seen as a special case. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-3092 (3) Comparative Political Economy

Presents theories on the interaction between policies and economics, economic models of politics, and familiarizes students with an approach that will prove useful in understanding current developments in both economics and politics. Explores relationships between financial markets, currency regimes, and politics with some special consideration of the behavioral foundations of political and economic developments. Prereq., PSCI 2012.

College of Arts & Sciences | Political Science | Comparative

PSCI-3102 (3) South Asian Politics

Examine the diverse political trajectories of four South Asian countries: India, Pakistan, Nepal, and Sri Lanka. Using a comparative lens, we will take into account historical, cultural, and economic, in addition to political, factors in deciphering this diversity of political paths. Prereqs., ASIA 1000, HIND 1011, HIST 1408, and PSCI 2012.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4002 (3) Western European Politics

Comparatively analyzes development of the political systems and processes of European democracies. Emphasizes contemporary institutions, decision making patterns, and policy issues. Special attention to challenges of welfare systems. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4012 (3) Global Development

Analyzes development theory, case studies in development strategies, and the problems and promises of development: specifically issues of gender, environment, labor, corruption and poverty. The primary focus is on explanations for variation in level of development over time and across countries. Prereq., PSCI 2012, ECON 2020, IAFS 1000, or one upper-division PSCI course. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4022 (3) Chinese Foreign Policy

History of China's external relations and theories of foreign policy decision making. Explores two vital bilateral relations (Sino-U.S. and Sino-Japanese) and several key issues (like Taiwan) in China's 21st century foreign policy. Prereq., PSCI 2012. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4052 (3) Chinese Politics

Explores the politics of 20th century China to speculate on China's future in the 21st century. Begins with an extensive look at the political history of the People's Republic, before turning to social, cultural, economic, and political issues today. Concludes with an examination of Chinese foreign policy, with a focus on Sino-American relations. Prereq., PSCI 2012 or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4062 (3) The Emerging Democracies of Central and Eastern Europe

Studies developments in the former Soviet satellites and Yugoslavia, their governmental organizations, and their relation to the former Soviet Union and the West. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4092 (3) Comparative Urban Politics

Comparatively analyzes major urban systems in different political/economic settings and Third-World countries. Gives special attention to political and economic factors shaping urbanization processes and distinctive policy issues in these different settings. Recommended prereq., PSCI 1101 and 3071. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-4122 (3) The Military in Politics: Latin America and the U.S.

Analyzes the causes and consequences of military intervention in politics, contrasting patterns of civil-military relations, and the problem of democratic control of the armed forces. Focuses on the Latin American military, with secondary attention to U.S. military. Prereq., PSCI 2012 or IAFS 1000, and PSCI or ROTC major. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-4242 (3) Middle Eastern Politics

Explores the domestic politics of various Middle Eastern countries as well as the development and globalization of the region. Includes topics such as the ongoing prevalence of dictatorships, political Islamism, oil politics, economic growth and stagnation, and relations with the U.S. Prereq., PSCI 2012.

College of Arts & Sciences | Political Science | Comparative

PSCI-4252 (3) Politics of Ethnicity and Nationalism

Analyzes ethnic identity as a factor in contemporary politics. Deals extensively with the role of ethnic groups in political mobilization, the development of national collective consciousness, nation building, and international relations. Explores the influence of religion, language, history, culture and class on ethnic group formation and behavior. Prereq., PSCI 2012. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Comparative

PSCI-4302 (3) European Union Politics

Explores the development, functioning, focus and future of the European Union. Examines history, institutions, policies and politics as well as governance theories that have been developed to explain origins and evolution of the EU. Prereq., PSCI 2012.

College of Arts & Sciences | Political Science | Comparative

PSCI-4312 (3) Politics and Language

Examines the politics of language. Topics covered include the primordial versus instrumental role of languages, the politics over minority language recognition, and the trade-offs surrounding the use of a lingua franca. Course will start with a regional focus on Asia then shift to the European Union and conclude in the United States. Prereq., PSCI 2012.

College of Arts & Sciences | Political Science | Comparative

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4732 (3) Critical Thinking in Development

Exposes students to current issues in the political economy of development. Subjects range from globalization, democratization, and economic development. Specifically, the course explores the international and domestic determinants of economic development with special reference to currency markets, foreign direct investment, trade, and democratization. Prereqs., PSCI 2012 or IAFS 1000, ECON 2010 and 2020, and one upper-division PSCI course. Same as INVS 4302. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4792 (3) Issues in Latin American Politics

Studies several Latin American countries in some depth including history and contemporary politics. Teaches students to listen to and evaluate different sides of political controversies, and critically evaluate arguments. Prereqs., PSCI 2012 or IAFS 1000, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-4842 (1-3) Independent Study in Comparative Politics

Subjects chosen and arrangements made to suit needs of each student. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall GPA of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 2012 or IAFS 1000.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-6902 (1-3) Graduate Research Topic

Guides independent research on a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8902.

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| College of Arts & Sciences | Political Science | Comparative |
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PSCI-6952 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Comparative |
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Courses

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PSCI-2223 (3) Introduction to International Relations

Introduces the field of international relations, with general survey of the theories, histories, and problems of historical and contemporary relations among state and nonstate actors. Approved for GT-SS1. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Political Science](#)
[International Relations](#)

PSCI-3123 (3) War, Peace, and Strategic Defense

Analyzes employment, or the threat of employing force, in securing American interests in the post-Cold War world. Gives special attention to utilities claimed for nuclear weapons, and alternatively, to weapons control and disarmament. Prereq., PSCI 2223.

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PSCI-3143 (3) Problems in International Relations

Analyzes the various theoretical and policy challenges facing the post-Cold War world, with an emphasis on examining alternative conceptions of and approaches to such challenges. Prereq., PSCI 2223. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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PSCI-3163 (3) American Foreign Policy

Examines foundations, assumptions, objectives, dynamics, and methods of U.S. foreign policy since WWII. Gives special attention to domestic and external problems of adapting U.S. policy to the changing world environment. Prereq., PSCI 2223. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | International Relations

PSCI-3193 (3) International Behavior

Presents alternate theoretical frameworks for the explanation of international processes. Applies theories of conflict behavior and social organization to problems of war and peace. Prereq., PSCI 2223. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | International Relations

PSCI-4173 (3) International Organization

Analyzes international organizations to determine whether they are an effective instrument for achieving peace and security and for the promotion of human welfare. Prereq., PSCI 2223. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | International Relations

PSCI-4183 (3) International Law

Investigates the body of law that regulates relations between nation states and provides a framework for the solving of common problems. Explores its nature and effectiveness as well as its adaptability to a changing environment. Prereq., PSCI 2223. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | International Relations

PSCI-4193 (3) International Political Economy

Analyzes issues at the intersection of international politics and international economics. Utilizes theories and concepts from both economics and political science to understand issues in trade, finance, development and migration. Prereq., PSCI 2223.

College of Arts & Sciences | Political Science | International Relations

PSCI-4213 (3) Europe in the International System

Covers European and Atlantic regionalism. Discusses such communities as the Council of Europe, NATO, EFTA, and OECD, and provides a detailed examination of the European Union. Looks at theories of integration, problems of partnership and interdependence, rival nationalisms and strategic doctrines, and problems of the post-Cold War era. Prereq., PSCI 2223.

College of Arts & Sciences | Political Science | International Relations

PSCI-4243 (3) Modern Warfare: Terrorism, Ideology, Identity

Explores the evolution of warfare and origins of terrorism. Ideological and identity differences have come to the forefront of violent political conflicts while the emerging doctrine of warfare has placed civilians in the middle of modern conflicts. Tracks potential changes in the means of and reasons for fighting, roles of civilians and media, and rules of war. Prereq., PSCI 2223. Recommended prereq., PSCI 3193. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | International Relations

PSCI-4703 (3) Alternative World Futures

Aims to help students think about the future of the world in a systematic way. Focuses on alternative projections and policies dealing with major problems. Prereq., PSCI 2223 and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Political Science | International Relations

PSCI-4783 (3) Global Issues

Studies the principal issues confronting humanity that affect stability and survivability and their economic, social, and political implications. Prereq., PSCI 2012 or 2223. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Political Science (PSCI), International Affairs (IAFS) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Political Science | International Relations

PSCI-4843 (1-3) Independent Study in International Relations

Subjects chosen and arrangements made to suit needs of each student. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall average of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 2223.

College of Arts & Sciences | Political Science | International Relations

PSCI-6903 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8903.

College of Arts & Sciences | Political Science | International Relations

PSCI-6953 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | International Relations

PSCI-7013 (3) Seminar: International Relations

Reviews salient literature on international relations, and subsequent presentation and critical discussion of analytical studies. Allows students wide latitude in substantive and methodological approaches. Emphasizes changing trends and efforts to understand the bases for cooperation and conflict. Restricted to graduate students or instructor consent required.

College of Arts & Sciences | Political Science | International Relations

PSCI-7023 (1) Foreign Policy

Examines sources of foreign policy in terms of international pressures, economic interests, bureaucratic politics, cognitive process, public opinion, elections, congress, and presidential leadership. Examines uses and limitations of economic statecraft, military intervention, and current foreign policy issues. Recommended prereq., PSCI 7013.

College of Arts & Sciences | Political Science | International Relations

PSCI-7043 (3) Seminar: Problems of International Organization

Studies selected problems concerning administration and operation of public international organizations, including the United Nations and its specialized agencies. Considers decision making, executive leadership, internal organization, personnel policies, coordination of activities, and financing. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | International Relations

PSCI-7053 (3) War and Peace

Provides systematic treatment of theories, concepts, and data addressing the conditions and processes of international conflict, violence, and stability, with attention to historical and contemporary cases. Restricted to graduate students or instructor consent required.

College of Arts & Sciences | Political Science | International Relations

PSCI-7073 (3) Seminar: Global Political Economy

Introduces graduate students to concepts, theories, and data used to study the global system from a political-economic framework. Examines world systems analysis, regime change theory, and dependency theory with respect to operation of the exchange and power relationship within the contemporary world system. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | International Relations

PSCI-7123 (3) Seminar: Conflict Behavior - The Politics of Violence

Surveys historical, theoretical, and empirical analyses of violent conflict behavior, including causes and consequences of riots, terrorism, revolution, international war, and intervention. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | International Relations

PSCI-7903 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Political Science | International Relations

PSCI-8903 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6903.

College of Arts & Sciences | Political Science | International Relations

PSCI-8993 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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CLAS-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PSCI-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PSCI-8993 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PSCI-8994 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PSCI-2004 (3) Survey of Western Political Thought

Studies main political philosophies and political issues of Western culture, from antiquity to 20th century. Approved for GT-SS1. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#)
[Political Science](#)
[Political Theory](#)

PSCI-3054 (3) American Political Thought

Highlights the development of American political theories and ideas from colonial period to present. Can also be taken for American field credit. Recommended prereq., PSCI 2004. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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[Political Science](#)
[Political Theory](#)

PSCI-3064 (3) Environmental Political Theory

Examines environmental discourses as conceptual means for theorizing environmental politics, and applies normative political theories to contemporary environmental policy issues. Considers the roles of political actors (individuals, groups, the state) in defining and addressing environmental problems on local, national, and global levels. Recommended prereq., PSCI 2004. Approved for arts and sciences core curriculum: ideals and values.

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PSCI-3074 (3) Dimensions of Citizenship in the US and the EU

Studies theories and problems related to citizenship in the US and the EU. This includes rights and restrictions of citizenship, issues of immigration, multicultural citizenship, globalization and citizenship. In the EU the relation between member nation citizenship and EU citizenship is a special problem. Examines how the US and EU compare. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Political Science | Political Theory

PSCI-3084 (3) Diversity, Disagreement, and Democracy: an Introduction to the Theory and Practice of Democracy

Examines the justification and limits for moral, political, and religious pluralism. The students will be trained in the practice of dialogue. They will research the historical context of a subject that would be appropriate for a dialogue and interview members of the community who have different perspectives on the subject. Restricted to students with minimum 26 hours completed.

College of Arts & Sciences | Political Science | Political Theory

PSCI-4024 (3) Senior Seminar in Political Theory

Intensively analyzes and discusses major theories and issues of both contemporary political thought and the history of political philosophy. The topic is announced by the instructor, but might include analysis of concepts (justice, human rights, democracy, etc.) or major theories. Emphasizes advanced discussion plus individual research. Prereq., PSCI 2004.

College of Arts & Sciences | Political Science | Political Theory

PSCI-4714 (3) Liberalism and Its Critics

Examines contemporary arguments for and against liberalism. Focuses on the analysis, evaluation, and understanding of the philosophical contributions to this debate. Gives special attention to the concepts of justice, freedom, equality, and individualism. Prereq., PSCI 2004. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Political Science | Political Theory

PSCI-4734 (3) Politics and Literature

Broadly examines political topics as they are presented in important literary works and analyzes the possibilities involved in using the literary mode to present political teachings. Prereq., PSCI 2004. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Political Science | Political Theory

PSCI-4774 (3) Liberal Democracy and the First Amendment

Examines in depth various philosophical and legal justifications of First Amendment rights of speech, press, association, and religion. Assesses these justifications in relation to broader normative theories of liberal democracy. Prereq., PSCI 2004. Recommended prereq., PSCI 2481. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Political Science | Political Theory |
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PSCI-4844 (1-3) Independent Study in Political Theory

Subjects and arrangements suit individual student needs. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall GPA of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 2004.

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| College of Arts & Sciences | Political Science | Political Theory |
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PSCI-6904 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. Maybe repeated up to 7 total credit hours. Same as PSCI 8904.

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| College of Arts & Sciences | Political Science | Political Theory |
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PSCI-6954 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Political Theory |
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PSCI-7004 (3) Seminar: Political Theory

Allows for intensive research in and presentation of selected topics. Introduces students to the broad context within which political ideas arise. Deals with classical and modern thought. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Political Theory |
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PSCI-7024 (3) Seminar: Selected Political Theories

Familiarizes students with selected political philosophies or theories in classical or modern political thought. Restricted to graduate students or instructor consent required.

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| College of Arts & Sciences | Political Science | Political Theory |
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PSCI-7114 (3) Survey of Historical and Contemporary Political Theory

Examines major texts of Western political thought from the ancients through the 21st century. Introduces students to major schools of contemporary political theory, while situating these in their

larger political context. Professionalizes students through presentations and research projects. Texts vary each semester. May be repeated up to 6 total credit hours. Recommended prereq., some previous coursework in political theory or philosophy. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Political Theory

PSCI-7124 (3) Contemporary Democratic Theory

Surveys major schools of contemporary democratic theory and introduces students to current scholarly debates about democracy and democratic politics. Professionalizes students through class presentations and research projects. Specific controversies and texts vary each semester. Recommended prereq., some previous coursework in political theory or philosophy. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Political Theory

PSCI-8904 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6904.

College of Arts & Sciences | Political Science | Political Theory

PSCI-8994 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

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PSCI-2075 (3) Quantitative Research Methods

Introduces quantitative research methods used in political science. Focuses on basic tools of analysis: data collection, processing, and evaluation, with special attention to survey techniques. Includes elite and case study analysis; aggregate, cluster, and content analysis; and the use of computers in political research. Restricted to students with 6 completed hours of political science course work. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#)
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[Empirical Thry & Research Mthd](#)

PSCI-3105 (3) Designing Social Inquiry: An Introduction to Analyzing Political Phenomena

This course is designed to survey the wide range of research designs and methods employed in political science research, including normative analysis, interpretive analysis and causal analysis. It will provide an introduction to students planning to write honors theses and will be useful for any student planning to do research in political science as part of a senior seminar or capstone course. Approved for arts and sciences core curriculum: quantitative reasoning and mathematics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

[College of Arts & Sciences](#)
[Political Science](#)
[Empirical Thry & Research Mthd](#)

PSCI-3225 (3) Rationality, Democracy, and Public Policy

Focuses on the rational choice approach to understanding social decision making. Examines possibilities for choosing rational courses of social action and concrete problems of rational decision making. Prereqs., PSCI 1101 or 2012. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#)
[Political Science](#)
[Empirical Thry & Research Mthd](#)

PSCI-4715 (3) Honors Political Science Seminar

Involves writing and discussion of selected topics in political science. Critically reviews the major methodological and conceptual features of the discipline. Students begin their honors papers in the seminar. Prereq., GPA of at least 3.50. Formerly PSCI 4718. Generally offered in fall term only.

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PSCI-6905 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8905. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd |
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PSCI-6955 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd |
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PSCI-7055 (3) Introductory Game Theory

Develops competence in engaging formal theories of politics and in constructing and solving basic game-theoretic models of political behavior. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd |
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PSCI-7075 (3) Introduction to Professional Political Science

Introduces graduate students to intellectual foundations and historical development of political science; epistemologies, subfields, intellectual approaches, methodological strategies of the discipline; and ethics and norms of professional conduct. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd |
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PSCI-7085 (4) Introduction to Political Science Data Analysis

Provides intensive experience with quantitative techniques commonly employed in political science research; builds on a review of multivariate regression, inferential statistics, and causal modeling. Students undertake substantive research projects, requiring lab instruction in the use of the computer in quantitative applications of political science research. Prereq., graduate standing in PSCI or instructor consent. Prerequisites: Restricted to Political Science (PSCI) graduate students only.

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| College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd |
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PSCI-7095 (3) Advanced Political Data Analysis

Provides advanced training in empirical and analytic methods of political analysis. Covers general multivariate linear (regression) model as employed in political science. Also covers a variety of dynamic approaches to empirical analysis (stochastic models, time series, and simulation). Prereq., PSCI 7085. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-7115 (3) Qualitative Methods

Develop proficiency in constructing research designs with qualitative methods. The goal is to understand and be able to justify research designs involving relatively small numbers of observations as good political science given the fact that such designs may limit our ability to generalize. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-7145 (3) Basic Formal Methods in Political Science

Introduces the application and role of models in political science (domestic and international politics), in areas such as voting, committees, power, decision making, and war and peace. Models include applications of set theory, elementary probability, games, and systems analysis. Restricted to graduate students or instructor consent required.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-7175 (3) Dissertation Seminar

Help students make progress towards (1) in the short term: focusing in on a dissertation topic, crafting a dissertation prospectus, and identifying potential funding sources; and (2) in the long term: sending papers out for review, developing a package for the job market, and understanding the academic job market and the tenure process. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-7905 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-8905 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6905.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-8995 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

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PSCI-2106 (3) Introduction to Public Policy Analysis

Studies policymaking processes in American government, factors shaping public decision, and issues and questions relevant to political inquiry.

[College of Arts & Sciences](#)
[Political Science](#)
[Public Policy](#)

PSCI-2116 (3) Introduction to Environmental Policy and Policy Analysis

Teaches a systematic general framework for the analysis of environmental policy issues. Analyzes the interaction of environmental sciences, ethics, and policy across a range of environmental policy problems. Stresses critical thinking and practical applications. Recommended prereq., ENVS 1000.

[College of Arts & Sciences](#)
[Political Science](#)
[Public Policy](#)

PSCI-3206 (3) The Environment and Public Policy

Considers constitutional, political, and geographic factors in development of public policy affecting the use of natural resources and management of the environment; organization, procedures, and programs for use of natural resources; and administration of environmental policies. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Political Science](#)
[Public Policy](#)

PSCI-4716 (3) Selected Policy Problems

Integrates general principles of policy inquiry with documents and other literature on specific problems in public policy, in order to evaluate courses of action. May be repeated up to 6 total credit hours on different topics. Prereq., PSCI 1101. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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| College of Arts & Sciences | Political Science | Public Policy |
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PSCI-6906 (1-3) Graduate Research Topic

Provides the opportunity for independent research in topic of interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8906.

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| College of Arts & Sciences | Political Science | Public Policy |
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PSCI-6956 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Public Policy |
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PSCI-7016 (3) Introduction to the Policy Sciences

Provides an introduction to the policy sciences as a distinctive tradition within the policy field. Emphasizes the use of conceptual tools to improve analysis of complex problems. Teaches problem solving framework that students apply to an issue of their choice. Restricted to graduate students or instructor consent required. Same as ENVS 5710. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Public Policy |
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PSCI-7026 (3) The Problem Orientation

Teaches basic problem solving framework for policy analysis. Emphasizes applications to develop policy recommendations for issues selected by students. Includes group projects. Restricted to graduate students or instructor consent required. Same as ENVS 5720.

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| College of Arts & Sciences | Political Science | Public Policy |
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PSCI-7036 (3) Introduction to the Policy Sciences: The Decision Process

Provides policy sciences frameworks for analyzing policy processes and designing political strategies to influence those processes in the direction of the preferred alternative. Emphasizes applications to problems selected by students for term projects. Restricted to graduate students or instructor consent required. Same as ENVS 5730. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Political Science | Public Policy |
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PSCI-7046 (3) Seminar: Urban Public Policy

Focuses on formulation, revision, and outcomes of public policy in American urban communities. Also uses some comparative Canadian and European literature. Restricted to graduate students or instructor consent required.

College of Arts & Sciences | Political Science | Public Policy

PSCI-7056 (3) Readings in Public Policy

Explores diverse approaches to policy choice, change, and learning processes. Overviews literature on policy determinants and typologies, policy subsystems, innovation and diffusion, agenda setting, implementation, problem definition and social construction, policy design, institutional analysis, and policy and democratic values. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Public Policy

PSCI-7116 (3) Context-Sensitive Research Methods

Prepares students to conduct research on topics where data is not obvious or not easily available. Encompasses variations in context and setting as part of data observations. Methods include interviewing protocols, interpretive methods, cluster analyses, case study methodologies, and textual analyses. Restricted to graduate students or instructor consent required. Same as ENVS 5740.

College of Arts & Sciences | Political Science | Public Policy

PSCI-7906 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Political Science | Public Policy

PSCI-8906 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6906.

College of Arts & Sciences | Political Science | Public Policy

PSCI-8996 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the

Graduate School section.

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Courses

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ECON-4309 (3) Economics Honors Seminar 1

For information consult the department's director of honors. Open only to qualified seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#)
[Economics](#)
[Independent Study and Other](#)

ECON-4339 (3) Economics Honors Seminar 2

For information consult the department's director of honors. This course does not count toward major requirements. Prereq., ECON 4309. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#)
[Economics](#)
[Independent Study and Other](#)

ECON-4909 (3) Independent Study

May be repeated up to 6 total credit hours, but only 3 credit hours count for economics major. Prereqs., ECON 2010 and 2020; completion of at least 12 hours of ECON classes and instructor and department consent required. Offered only to students with a GPA of 3.00 or better.

[College of Arts & Sciences](#)
[Economics](#)
[Independent Study and Other](#)

ECON-4939 (2-6) Internship/Seminar

Offers students the opportunity to integrate theoretical concepts of economics with practical experience in economics-related institutions. The theoretical portion arises from seminars and readings, the practical from activities in organizations related to the economics field. A maximum of 3 credit hours counts toward major requirements. Prereqs., ECON 3070 and 3080 and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Economic (ECON) majors only.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-4999 (3) Economics in Action: A Capstone Course

Students read current periodicals, picking out topics in which economics plays a role in understanding events. Background reading is assigned on topics chosen. May not be taken more than once for credit. Prereqs., ECON 3070 and 3080, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Economics | Independent Study and Other

ECON-6209 (3) Research Methods in Economics

Trains graduate students in scientific methodology and research in economics. Culminates in a research project that normally leads directly to thesis work. Prereqs., ECON 6070, 6080, 6808, and 6818.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-6949 (1) Master's Candidate

College of Arts & Sciences | Economics | Independent Study and Other

ECON-6959 (1-6) Master's Thesis

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8209 (3) Economics Research Methods Workshop 1

Assists students starting their doctoral thesis by discussing methodology and evaluation of economic research. Presents and discusses student research proposals. Prereqs., two ECON courses at the 8000 level. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8219 (3) Economics Research Methods Workshop 2

Continuation of ECON 8209. Assists students starting their doctoral thesis by discussing relevant economic research. Presents and discusses research papers. Prereq., ECON 8209.

College of Arts & Sciences | Economics | Independent Study and Other

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8909 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., instructor and department consent.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Economic (ECON) graduate students are restricted from taking this course.

College of Arts & Sciences | Economics | Independent Study and Other

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ENGL-5019 (3) Survey of Contemporary Literary and Cultural Theory

Introduces a variety of critical and theoretical practices informing contemporary literary and cultural studies. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English (ENGL) MA-Lit graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-5029 (3) British Literature and Culture Before 1800

Introduces graduate level study of medieval and early modern writing through the long eighteenth century. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-5059 (3) British Literature and Culture After 1800

Introduces graduate level study of Romantic, Victorian, Modern, and Postmodern writing. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Same as ENGL 5079. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-5079 (3) British Literature and Culture After 1800.

Same as ENGL 5059.

College of Arts & Sciences | English | Graduate Courses

ENGL-5109 (3) Literature and Culture of the United States

Introduces graduate level study of writing of the United States from its inception to the present. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5139 (3) Global Literature and Culture

Introduces graduate level study of recent writing in English from around the world. Emphasizes a wide range of genres, forms, new media, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5169 (3) Multicultural/Postcolonial Studies.

Introduces graduate level study of ethnic American and/or postcolonial writing in English, including relevant theoretical discourse. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5199 (3) Studies in Special Topics

See ENGL 5109 for description.

College of Arts & Sciences | English | Graduate Courses

ENGL-5229 (3) Poetry Workshop

Designed to give students time and impetus to generate poetry and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-5239 (3) Fiction Workshop

Designed to give students time and impetus to generate fiction and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5259 (3) Nonfiction Workshop

Designed to give students time and impetus to generate nonfiction and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5269 (3) Publishing Workshop

Provides practical experience in the editorial, design, and business procedures of desktop publishing. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5279 (3) Studies in Poetry

Addresses modern poetry, written since World War II. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5299 (3) Studies in Fiction

Addresses modern fiction written since World War II. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5309 (3) Playwriting

Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5319 (3) Studies in Literary Movements

Studies styles, trends, innovations, and major writers in significant literary movements, particularly those after 1900, such as modernism and objectivism. May be repeated up to 9 total credit hours. Restricted to graduate CRWR, ENLT, and ENGL majors. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

College of Arts & Sciences English Graduate Courses

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| College of Arts & Sciences | English | Graduate Courses |
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ENGL-5459 (3) Introduction to the Profession

Introduces purposes, methods and techniques of professional scholarship in English. Provides an overview of the discipline, including traditional areas of research and recent developments. Teaches students how to use research, bibliographic, and reference tools to prepare papers for conferences and publication. Required of all MA students in English. Prereq., graduate standing or instructor consent. Formerly ENGL 7859. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

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| College of Arts & Sciences | English | Graduate Courses |
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ENGL-5529 (3) Studies in Special Topics

Studies special topics that focus on a theme, genre, or theoretical issue not limited to a specific period or national tradition. Topics vary each semester. May be repeated up to 9 total credit hours. Same as ENGL 5549 and 5559. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

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| College of Arts & Sciences | English | Graduate Courses |
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ENGL-5549 (3) Studies in Special Topics

Same as ENGL 5529 and 5559. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

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| College of Arts & Sciences | English | Graduate Courses |
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ENGL-5559 (3) Studies in Special Topics

Same as ENGL 5529 and 5549. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

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| College of Arts & Sciences | English | Graduate Courses |
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ENGL-5849 (1-6) Independent Study (Graduate Level 1)

Independent investigation of topics of specific interest to individual students. Students wishing to enroll in independent study must petition the Associate Chair for Graduate Studies prior to the beginning of the semester. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | English | Graduate Courses |
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ENGL-6949 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

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College of Arts & Sciences | English | Graduate Courses

ENGL-6959 (1-9) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-7019 (3) Advanced British Literature and Culture Before 1800

Studies special topics in medieval and early modern writing through the long 18th Century. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL. 5019.

Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

College of Arts & Sciences | English | Graduate Courses

ENGL-7059 (3) Advanced British Literature and Culture After 1800

Studies special topics in romantic, Victorian, modern and postmodern writing. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5059. Prerequisites:

Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

College of Arts & Sciences | English | Graduate Courses

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PSCI-8995 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#) | [Political Science](#) | [Empirical Thry & Research Mthd](#)

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PSCI-8996 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#) | [Political Science](#) | [Public Policy](#)

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ECON-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Economic (ECON) graduate students are restricted from taking this course.

[College of Arts & Sciences](#) [Economics](#) [Independent Study and Other](#)

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ENGL-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

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THTR-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Special Courses in Theatre](#)

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ANTH-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the graduate school section.

[College of Arts & Sciences](#) | [Anthropology](#)

APPM-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. No more than 10 credit hours may be taken in any one semester. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Applied Mathematics](#)

ASTR-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Astrophysical & Planetary Sciences](#)

ATOC-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Atmospheric & Oceanic Sciences

COML-8990 (1-10) Doctoral Dissertation

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COMM-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Communication

EBIO-8990 (1-10) Doctoral Dissertation

Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

ENVS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Environmental Studies

FREN-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French

GEOG-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOL-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Geological Sciences | Graduate Course

HIST-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | History | Methods, Comparative, Global

IPHY-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Restricted to IPHY graduate students. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

College of Arts & Sciences | Integrative Physiology

JPNS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Asian Languages & Civilizations | Japanese

LING-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Linguistics

MATH-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School portion of the catalog.

College of Arts & Sciences Mathematics

MCDB-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

PHIL-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHYS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Physics

SLHS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SPAN-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

CHEM-8991 (1-10) Doctoral Dissertation

All doctoral students must register for 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSCI-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Political Science | American

PSYC-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Psychology | General

SOCY-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences | Sociology | General Sociology



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APPM-7400 (1-3) Topics in Applied Mathematics

Provides a vehicle for the development and presentation of new topics with the potential of being incorporated into the core courses in applied mathematics. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Applied Mathematics

SPAN-7400 (2-4) Seminar: Spanish Phonology

Same as SPAN 5400.

College of Arts & Sciences | Spanish | Spanish

CHEM-7401 (1) Seminar in Photochemical Reaction Control

Discusses progress towards control of molecular reactivity using light, including synthetic methods for creating control subjects. Emphasizes new methods to achieve coherent control. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

LING-7410 (3) Phonological Theory

Phonetic and morphophonological representations: distinctive features, segments, prosodic structures, morphological structures. Phonological processes and their interaction. Naturalness conditions. Prereq., LING 5410 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

SPAN-7410 (2-4) Seminar: Spanish Syntax

Same as SPAN 5410.

College of Arts & Sciences | Spanish | Spanish

HIST-7415 (3) Graduate Seminar in Modern United States History

Introduces students to various research approaches and methods in modern U.S. historiography and requires them to produce a substantial and original research paper using both primary and secondary sources. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | US: Chronological Periods

LING-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as PSYC 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

PHIL-7415 (2) Cognitive Science Research Practicum.

Independent, interdisciplinary research project in cognitive science for graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students should obtain commitments from two mentors for their project. Prereqs., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereqs., CSCI 7762 or EDUC 6505 or LING 7762 or PSYC 7765. Same as LING 7415, PSYC 7415, CSCI 7412, and EDUC 6506.

College of Arts & Sciences | Philosophy

PSYC-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as LING 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

LING-7420 (3) Syntactic Theory

Covers various topics in syntactic theory. May be repeated up to 9 total credit hours with instructor consent. Prereq., LING 5420 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

SPAN-7420 (2-4) Seminar: History of the Spanish Language

Same as SPAN 5420.

College of Arts & Sciences | Spanish | Spanish

CHEM-7421 (2) Seminar: Negative Ion Chemistry

Chemistry of negative ions; experimental methods and designs; laser spectroscopy of ions; theoretical methods; reactive dynamics of ions in the gas phase. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

HIST-7424 (3) Research Methods in Medieval/Early Modern European History

Introduces students to research skills needed to work with historical manuscripts. Students learn to read late medieval/early modern handwriting, explore CU's microfilmed collections of manuscripts, and write a research paper based on the manuscript materials. Prereq., graduate standing or instructor consent.

College of Arts & Sciences | History | Europe: Topical

LING-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Phd in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Linguistics

PHIL-7425 (2) Cognitive Science Research Practicum 2.

Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 6310 or PSYC 7762. Same as CSCI 7422, EDUC 6516, LING 7425, PSYC 7425.

College of Arts & Sciences | Philosophy

PSYC-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as LING 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Experimental

LING-7430 (3) Semantic Theory

Current developments in the theory of linguistic semantics. Topics include truth-conditional theories, generative linguistic theories, semantic theories of communicative competence, and integration of these theories in development of a combined theory of semantics and pragmatics. Prereq., LING 5430 or instructor consent.

College of Arts & Sciences | Linguistics

SPAN-7430 (1-3) Seminar: Hispanic Linguistics

Same as SPAN 5430.

College of Arts & Sciences | Spanish | Spanish

CHEM-7431 (1) Seminar: Topics in Theoretical Chemical Physics

Seminars presented on a variety of topics in theoretical chemical physics. Molecular collisions and unimolecular dynamics predominantly featured. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PHYS-7440 (3) Theory of the Solid State

Stresses application to the solid state of physical concepts basic to much of modern physics, single-particle approximation, and the energy-band description of electron states in solids, pseudopotential theory applied to ordered and disordered systems, dynamical behavior of electrons in solids, lattice dynamics, Hartree-Fock and random-phase approximation in solids, many-body aspects of magnetism, and superconductivity. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

SPAN-7440 (3) Seminar: Trends in Hispanic Linguistics

Same as SPAN 5440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Spanish | Spanish

CHEM-7441 (2) Research Seminar: Theoretical Chemistry

Studies theoretical description of molecular dynamics as related to rate processes. Focuses on chemical reactions in liquids, absorption-desorption on surfaces, nucleation reactions, and energy flow in molecules. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PHYS-7450 (3) Theory of Solid State 2

The second semester of condensed matter physics covers topics in soft condensed matter physics, liquid crystals, semiconductors, Quantum Hall effect, Fractional Quantum Hall effect, superconductivity, and other topics at the discretion of the instructor.

College of Arts & Sciences | Physics

SLHS-7450 (3) Audiology Capstone Project

Provides an individualized project for AUD, completed prior to initiation of final clinical year. May be in the form of research-based investigation, an evidence-based position paper, a clinical protocol based on peer-reviewed literature, a grant proposal, or another format approved by AUD committee. Project requires approved proposal by AUD committee and focused study supervised by capstone advisor. Restricted to students enrolled in the AUD graduate program. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SPAN-7460 (3) Topics in Spanish Language Acquisition and Applied Linguistics

Same as SPAN 5460.

College of Arts & Sciences | Spanish | Spanish

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CHEM-7461 (1) Seminar: Gas Phase Ion Chemistry

Studies gas phase ion chemistry relevant to thermochemical measurements and atmospheric, interstellar, and biomedical applications. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

HIST-7464 (3) Seminar: European Intellectual History

[College of Arts & Sciences](#) [History](#) [Europe: Topical](#)

CHEM-7471 (1) Seminar in Ultrafast Spectroscopy of Proteins

Discusses advances and developments in biomolecular dynamics, and considers the connection of protein dynamics with function. Emphasizes experimental studies via ultrafast laser spectroscopy. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7481 (2) Seminar: Molecular Spectroscopy and Photochemistry

Discussion and presentation of current research in spectroscopy and photochemistry of organic as well as organometallic systems. Reviews state of the art techniques available for the theoretical and experimental characterization of excited states. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

HIST-7485 (3) Seminar: United States History, 1948-Present

College of Arts & Sciences | History | US: Chronological Periods

ENGL-7489 (3) Advanced Special Topics

Studies special topics in theory, culture, and literature of any period. Topics will vary. May be repeated up to 9 total credit hours. Prereq., ENGL 5019; Ph.D. exempted. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences | English | Graduate Courses

CHEM-7491 (1) Seminar: Molecular Vibrational Dynamics

Topics pertaining to vibrational dynamics of small molecules are discussed, with particular emphasis upon IR laser spectroscopy, van der Waals' clusters, vibrationally induced dipole moments, and predissociation. Discussion of current research and recently published literature. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

ASTR-7500 (1-3) Special Topics in Astrophysical and Planetary Sciences

Acquaints students with current research in astrophysical and planetary sciences. Topics vary each semester. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

ATOC-7500 (1-3) Special Topics in Atmospheric and Oceanic Sciences

Acquaints students with current research in atmospheres, oceans, and climate. Topics may vary each semester. May be repeated up to 9 total credit hours. Students may register for more than one section of this course in the same semester. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Atmospheric & Oceanic Sciences

CHEM-7501 (1) Seminar: Theoretical Molecular Dynamics

Variety of topics in theoretical chemical physics, emphasizing dynamics of molecules in dissipative environments or in radiation fields. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

CHEM-7511 (1) Seminar: Reaction Dynamics in Condensed Phases

Studies elementary steps in chemical reactions and their observation by ultrafast spectroscopy. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

SLHS-7520 (3) Auditory Processes: Medical and Genetic Bases

Discusses current developments in epidemiology, pathogenesis, and symptomatology of hearing loss. Investigates the genetic bases of hearing loss and deafness. Incorporates clinical decision theory in assessment and intervention. Explores cross-disciplinary topics from genetics, radiology, pharmacology, pathology, and otology. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

CHEM-7521 (1) Seminar: Atmospheric Kinetics and Photochemistry

Discusses laboratory studies of degradation mechanisms. Applies these studies to atmospheric phenomena such as global warming and stratospheric ozone loss. May be repeated up to 6 total credit hours. Prereqs., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

SLHS-7530 (3) Auditory Processes: Theory and Application in the School Environment

Focuses on application of routine audiological practices such as screening, assessment, rehabilitation, and instrumentation to children in educational settings. Emphasizes federal education regulations and pertinent case law. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

CHEM-7531 (1) Seminar: Surface Chemistry and Thin Film Growth

Topics in surface chemistry and thin film growth with focus on atomic layer deposition (ALD) and molecular layer deposition (MLD). Properties of thin films grown using ALD and MLD. Applications of thin films in areas including flexible displays, energy storage and catalysis. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSYC-7536 (3) Personality and Social Psychology

Selected topics in the area of social-personality psychology. Students may register for more than one section of this course within the term and/or within their graduate career. These seminars may be on one of the following topics: stereotyping and person perception, social psychology and self, social psychology of problem behavior, health and social psychology, race and ethnic identity, or groups and small group organization. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Social

SLHS-7540 (3) Auditory Processes: Physiology, Assessment, and Management of the Vestibular System

Emphasizes current research on physiology of the vestibular system, including both structure and function. Considers the etiology of both peripheral and central pathologies of the vestibular system. Discusses ways to assess function of the vestibular system as well as theoretical and practical considerations of vestibular rehabilitation. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

PHYS-7550 (3) Atomic and Molecular Spectra

Covers theory of atomic structure and spectra, including coupling of angular momenta, tensor operators, energy levels, fine and hyperfine structure, transition probabilities, Zeeman and Stark effects. Molecular spectra: electronic, vibrational, and rotational states. Rotation matrices, symmetric top.

College of Arts & Sciences | Physics

SLHS-7550 (2) Mgmt and Prev of Noise and Noise Induced Hearing Loss

Discusses effects of noise and other damaging agents on the physiology of the auditory system. Highlights principles of hearing conservation programs. Focuses on prevention, identification, and management of occupational hearing loss and current legislation as it pertains to occupational safety and hazards. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

CHEM-7551 (1) Selected Topics in Ion Spectroscopy

Treats current topics in the spectroscopy of ions. Seminar lectures are given by graduate students on their research and on literature topics, and the results of both in-house and external research groups are studied. Additionally, ideas for interesting directions of research and new experiments are proposed and discussed. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

HIST-7551 (3) Seminar: Medieval History

College of Arts & Sciences | History | Europe: Ancient and Medieval

SLHS-7554 (1) Audiometric Instrumentation and Calibration

Introduces students to the basic concepts of electroacoustic transduction, and demonstrates the application of these concepts to the measurement and calibration of audiometric instrumentation. Students will become familiar with standard measurement equipment including multimeters, oscilloscopes, and sound level meters; and will become familiar with calibration standards for instruments including the audiometer, tympanometer, and electrophysiological amplifiers. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

HIST-7556 (3) Seminar: American Society and Thought

Prereq., graduate standing.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-7566 (3) Research Seminar in Labor History

Explores various issues in U.S. labor history through readings and research projects. Most of the readings are taken from writings on U.S. labor history. Special attention is given to women, immigration, and regional patterns. Research skills emphasized. Prereq., HIST 6536 or instructor consent.

College of Arts & Sciences | History | US: Topical Courses 1

LING-7570 (3) Advanced Diachronic Linguistics

Presents theories of language change. Discusses mechanisms of language change, its trajectories over linguistic categories and items, and its relation to theories of grammar and of language variation. Prereqs., LING 5410, 5420, and 5570, or equivalent. .

College of Arts & Sciences | Linguistics



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HIST-7581 (3) Latin Paleography

Discusses the development of formal scripts from the late Roman Empire to the 15th century. Provides practice in identification, transliteration, and translation of medieval manuscripts. Prereq., graduate standing and reading knowledge of Latin.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

CHEM-7601 (2) Seminar: Nucleic Acid Chemistry

Topics in various aspects of current research; emphasizes student readings and presentations. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7611 (1) Seminar: Structures and Dynamics of Biopolymers in Solution

Discussion of experimental and theoretical approaches for probing structures and dynamics of proteins, peptides, and nucleic acids; and computations in molecular dynamics simulation, modeling, and geometry. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

SLHS-7614 (3) Implantable Devices: Technology and Clinical Application

Examines technological aspects and clinical applications of implantable prostheses such as cochlear implants, brainstem implants, hybrid cochlear implants, Baha devices and middle ear implants. Topics will include: history of implantable devices, anatomy and histopathology of the inner ear, speech processing in implants, mapping devices, candidacy criteria, behavioral and

electrophysiologic techniques for assessment and outcomes in implanted children and adults. Prereq., good standing in SLHS graduate program or instructor consent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

ANTH-7620 (3) Seminar: Ethnography and Cultural Theory

Explores how ethnographic writing has evolved over the past century to incorporate different forms of cross-cultural representation and to accommodate new theoretical paradigms. Includes ethnographic authority and reflexivity, as well as embedded theories and blurred genres of cultural research.

College of Arts & Sciences | Anthropology

CHEM-7621 (1) Seminar: Biochemistry and Molecular Biology of Signal Transduction

Discusses and reviews the current literature and experimental results in signal transduction, cell cycle and tumor suppressor gene regulation. Emphasizes the understandings of molecular and biochemical mechanisms of the origin of human tumor cells. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

SLHS-7640 (3) Communication Processes and Hearing Loss: Birth through Six

Provides in-depth study of current research literature and its implications for clinical practice regarding development of communication processes in the first six years of life and impact of hearing loss. Investigates development of language, auditory perception, speech production, social-emotional abilities, and cognition. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

CHEM-7651 (2) Seminar: Environmental Biochemistry

Topics in various aspects of current biochemical and environmental research. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

HIST-7656 (3) Seminar: Women's History

Prereq., one 6000-level readings course in women's history.

College of Arts & Sciences | History | US: Topical Courses 1

CHEM-7661 (1) Structure/Function of Human Mediator Transcription Complexes

Study of the mechanisms of eukaryotic gene expression with an emphasis on the structure and function of human mediator transcription complexes. Restricted to graduate students or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSYC-7663 (1) Intellectual Assessment Laboratory

Practice administration of common intellectual tests. Prereq., instructor consent. Coreq., PSYC 7683. Restricted to clinical psychology graduate students. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

CHEM-7671 (1) Seminar: Topics in Designing Probes for Signaling Reactions

Discussion of advances and developments in biomolecular dynamics, with emphasis on experimental studies via ultrafast laser spectroscopy. The connection of protein dynamics with function will also be considered. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSYC-7673 (3) Adult Psychotherapy

Discusses selected topics in the field of psychotherapy, including content consideration and pertinent research. Topics vary from semester to semester. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

PSYC-7683 (1-3) Intellectual Assessment, with Practicum, in Clinical Psychology

Focuses on administering and interpreting objective test results commonly used in clinical psychology practice. Probable inventories used are MMPI, SCII, WISC, WAIS, plus other objective measures where relevant. Includes case study approach and direct clinical experience. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

CHEM-7691 (1) Seminar: Protein Dynamics and the Mechanism of Sensory Proteins

Discusses recent results and current literature in the areas of the mechanism of sensory proteins, internal motions of proteins, and protein folding. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSYC-7693 (3) Personality Measurement

Covers theory and practice primarily in areas of individual personality testing. Involves intensive field work and report writing. Prereq., instructor consent.

College of Arts & Sciences | Psychology | Clinical

CHEM-7701 (1) Seminar: Enzyme Mechanisms and Kinetics

Studies experimental approaches to understand the mechanisms of enzymic catalysis. Techniques include steady-state and pre-steady-state kinetics, isotope trapping and partitioning, inhibition by substrate analogues, and covalent modification of proteins. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSYC-7703 (3) Seminar: Clinical Psychology

Offers selected topics in the area of clinical psychology. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

CHEM-7711 (1) RNA Mediated Inorganic and Organic Reactions

Discussion of advances and developments in biomolecular dynamics, with emphasis on experimental studies via ultrafast laser spectroscopy. The connection of protein dynamics with function will also be considered. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

PSYC-7713 (1-3) Practicum in Clinical Psychology

Provides direct clinical experience for Phd candidates in clinical psychology only. May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Psychology | Clinical

SLHS-7714 (3) Advanced Topics in Amplification

Discusses advanced issues in the design and fitting of hearing aid technology, including advanced signal processing, outcomes assessment, evidence-based practice and specialized fitting protocols for pediatric and geriatric populations. Current research is integrated with clinical case studies to guide the development of evidence-based practice in hearing aid fittings. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

PHYS-7730 (3) Theory of Elementary Particles

Systematics of elementary particles, leptons, quarks, gauge bosons, symmetries and symmetry breaking, scattering cross sections, decay rates, electron-positron annihilation, lepton scattering and

hadron structure, quantum chromodynamics, electroweak interactions, gauge theories.

College of Arts & Sciences | Physics

CHEM-7741 (1) Seminar: Signal Transduction and Protein Phosphorylation

Devoted to experimental methods for understanding mechanisms of signal transduction in mammalian cells through pathways involving regulation of protein phosphorylation. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

CHEM-7751 (1) Seminar: Protein Structure and Folding

Studies structure and folding of proteins and protein complexes using biophysical methods, including nuclear magnetic resonance (NMR), circular dichroism, and fluorescence spectroscopies. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry

CHEM-7761 (1) Seminar: Eukaryotic Transcriptional Regulation

Studies the regulation of transcription by RNA Polymerase II from human promoters. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Chemistry



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LING-7762 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and PSYC 7765.

[College of Arts & Sciences](#) | [Linguistics](#)

PSYC-7765 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint PhD in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and LING 7762.

[College of Arts & Sciences](#) | [Psychology](#) | [Experimental](#)

LING-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as PSYC 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) | [Linguistics](#)

PSYC-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the LCS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in LCS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810.

College of Arts & Sciences Psychology Experimental

SLHS-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, PSYC 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

CHEM-7781 (1) Seminar: Topics in Structural Biology

Discussion of advances and developments in structural biology with emphasis on new methods for protein expression, purification and crystallization; and structure solution implementation. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7791 (1) Seminar: Topics in Ribonucleoprotein Assemblies

Studies aspects of the biochemical and structural analysis of ribonucleic acid (RNA) and its interactions with proteins and assemblies into functional ribonucleoprotein (RNP) enzymes. Techniques focus on x-ray crystallography, spectroscopic methods, and biochemical probing. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

LING-7800 (3) Open Topics in Linguistics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. Contact the department office for information. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

PHIL-7810 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, PSYC 7775 and SLHS 7775. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHYS-7810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

ECON-7818 (3) Mathematical Statistics for Economists

Provides the mathematical foundation for Ph.D. level statistical inference in economic research. The primary topics of the course are probability theory and mathematical statistics including hypothesis testing and classical estimation with an emphasis on the method of maximum likelihood. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-7828 (3) Econometrics

Continuation of ECON 7818. Topics include regression analysis and extensions of the linear regression model to generalized least squares, time series data, and systems of equations. Prereq., ECON 7818.

College of Arts & Sciences | Economics | Quantitative Economics

ANTH-7840 (1-6) Independent Research

Research aimed at developing a solution to an originally conceived research problem. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Anthropology

CLAS-7840 (1-3) Graduate Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Classics | Literature, Culture, & Thought

COML-7840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Comparative Literature

EBIO-7840 (1-6) Independent Study (Doctoral Level)

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

GEOG-7840 (1-3) Graduate Independent Study

Offers independent research for doctoral students only. Restricted to graduate students. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography

HIST-7840 (1-3) Independent Study

College of Arts & Sciences History Methods, Comparative, Global

MCDB-7840 (1-6) Graduate Independent Study

Instructor consent and independent study contract required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Molecular, Cellular, & Development Biology

PHYS-7840 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated up to 7 total credit hours. Same as PHYS 7850.

College of Arts & Sciences Physics

HIST-7841 (1-3) Independent Study

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-7842 (1-3) Independent Study

College of Arts & Sciences History Europe: Modern

HIST-7843 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Specific Countries

HIST-7844 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Topical

HIST-7845 (1-3) Independent Study.

College of Arts & Sciences | History | US: Chronological Periods

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HIST-7846 (1-3) Independent Study

College of Arts & Sciences | History | US: Topical Courses 1

HIST-7847 (1-3) Independent Study

College of Arts & Sciences | History | US: Topical Courses 2

HIST-7848 (1-3) Independent Study

College of Arts & Sciences | History | World Areas: Specific Regions

ENGL-7849 (1-3) Independent Study (Graduate Level 2)

May be repeated up to 7 total credit hours.

College of Arts & Sciences | English | Graduate Courses

HIST-7849 (1-3) Independent Study

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| College of Arts & Sciences | History | World Areas: Comp and General |
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SLHS-7849 (1-4) Independent Study 1, PhD

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Independent Study |
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PHYS-7850 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated for a total of 7 credit hours. Same as Phys 7840.

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| College of Arts & Sciences | Physics |
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SLHS-7859 (1-4) Independent Study 2, PhD

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

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| College of Arts & Sciences | Speech, Language, & Hearing Sciences | Independent Study |
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APPM-7900 (1-3) Independent Study

Introduces graduate students to research foci of the Department of Applied Mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

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| College of Arts & Sciences | Applied Mathematics |
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LING-7900 (1-3) Independent Study

May be repeated up to 7 total credit hours.

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| College of Arts & Sciences | Linguistics |
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PSCI-7901 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

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| College of Arts & Sciences | Political Science | American |
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PSCI-7902 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | Comparative

PSCI-7903 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Political Science | International Relations

PSCI-7905 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-7906 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Political Science | Public Policy

PSCI-7908 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | General

MCDB-7910 (1) Seminar Practicum

Designed for graduate students to give oral presentations on their thesis research, field questions, respond to critiques, and present background information. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Molecular, Cellular, & Development Biology

PHYS-7915 (1) Seminar Topics in Physics

Various seminar topics not normally covered in the curriculum: offered intermittently depending on student demand and availability of instructors. May be repeated up to 3 hours per semester.
Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

SLHS-7918 (3) Practicum 3: Clinical Supervision

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Practica

ASTR-7920 (1-6) Reading and Research in Astrophysical and Planetary Sciences

May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Astrophysical & Planetary Sciences

APPM-8000 (1) Colloquium in Applied Mathematics

Introduces graduate students to the major research foci of the Department of Applied Mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Applied Mathematics

APPM-8100 (1) Seminar in Dynamical Systems

Introduces advanced topics and research in dynamical systems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Applied Mathematics

MATH-8114 (3) Topics in Number Theory

May include the theory of automorphic forms, elliptic curves, or any of a variety of advanced topics in analytic and algebraic number theory. Prereq., MATH 6110. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Mathematics

MATH-8174 (3) Topics in Algebra I

Prereqs., MATH 6130 and 6140. Undergraduates must have approval of the instructor.

College of Arts & Sciences | Mathematics

SLHS-8206 (3) Perception/Production Theories in Human Communication Sciences and Disorders

Provides an advanced seminar in perception/production theories in human communication sciences and disorders. Familiarizes students with current perception theories related to the auditory/visual system and production theories related to the motor/auditory/visual system. Prereq., doctoral student standing or instructor consent.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci

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ECON-8209 (3) Economics Research Methods Workshop 1

Assists students starting their doctoral thesis by discussing methodology and evaluation of economic research. Presents and discusses student research proposals. Prereqs., two ECON courses at the 8000 level. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Independent Study and Other](#)

ECON-8211 (3) Public Economics: Fundamental Principles

Presents the fundamental principles of public goods, externalities, public choice, excess burden, optimal taxation, and tax incidence. Prereq., ECON 6211 or 7010. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Public Economics](#)

ECON-8219 (3) Economics Research Methods Workshop 2

Continuation of ECON 8209. Assists students starting their doctoral thesis by discussing relevant economic research. Presents and discusses research papers. Prereq., ECON 8209.

[College of Arts & Sciences](#) [Economics](#) [Independent Study and Other](#)

ECON-8221 (3) Public Economics: Topics in Public Expenditures and Taxation

Explores advanced topics in public economics such as decentralization, state and local government, program analysis, taxation, international tax issues, political economy issues, and market failure. Prereqs., ECON 6211 or 7010, and 8211.

College of Arts & Sciences | Economics | Public Economics

ECON-8231 (3) Local Public Economics

Examines subnational governments and systems of governments, the effects of inter-governmental competition, appropriate tax and expenditure responsibilities, and variations in governing institutions. Covers congestible public goods, Tiebout mechanisms, and tax capitalization. Prereq., ECON 6211 or 7010.

College of Arts & Sciences | Economics | Public Economics

MATH-8250 (3) Mathematical Theory of Relativity 1

Focuses on Maxwell equations, Lorentz force, Minkowski space-time, Lorentz, Poincare, and conformal groups, metric manifolds, covariant differentiation, Einstein space-time, cosmologies, and unified field theories. Prereq., instructor consent. Undergraduates must have approval of the instructor.

College of Arts & Sciences | Mathematics

ECON-8252 (3) Seminar: Urban and Regional Economics 1

Covers basic theories in spatial location of economic activity and land use and the survey techniques developed to analyze, measure, and predict regional and urban structure and growth, such as economic base studies, regional social accounts, and input-output analysis. Prereq., ECON 6070 or 7010.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-8262 (3) Topics in Urban and Regional Economics

Investigates various theoretical topics in urban and regional economics, focusing on policy issues. Involves student research and presentations. Prereq., ECON 6070 or 7010.

College of Arts & Sciences | Economics | Urban & Regional Economics

APPM-8300 (1-3) PDE and Analysis Seminar

Introduces the core methods in the analysis of nonlinear partial differential and integral equations or systems to graduate students. Provides a vehicle for the development, presentation, and cooperative research of new topics in PDE and analysis. Prereq., APPM 5440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Applied Mathematics

MATH-8304 (3) Topics in Analysis 1

Presents advanced topics in analysis including Lie groups, Banach algebras, operator theory, ergodic theory, representation theory, etc. Prereqs., MATH 8330 and 8340, or instructor consent. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-8330 (3) Functional Analysis 1

Introduces such topics as Banach spaces (Hahn-Banach theorem, open mapping theorem, etc.), operator theory (compact operators and integral equations, and spectral theorem for bounded self-adjoint operators), and Banach algebras (the Gelfand theory). See also MATH 8340. Prereqs., MATH 6310 and 6320. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

ECON-8333 (3) Globalization and Democratization: An Introduction

Introduces research on globalization and democratization from an interdisciplinary perspective. Examines ongoing interdisciplinary research on the global political economy. Students learn about ongoing research, critique current efforts, and design their own research project. Prereq., graduate standing in PSCI, ECON, GEOG, or SOCY. Same as PSCI 7333, SOCY 6031, and GEOG 5332.

College of Arts & Sciences Economics International Trade & Finance

MATH-8340 (3) Functional Analysis 2

Introduces such topics as Banach spaces (Hahn-Banach theorem, open mapping theorem, etc.), operator theory (compact operators and integral equations, and spectral theorem for bounded self-adjoint operators), and Banach algebras (the Gelfand theory). See also MATH 8330. Prereq., MATH 8330. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-8370 (3) Harmonic Analysis 1

Examines trigonometric series, periodic functions, diophantine approximation, and Fourier series. Also covers Bohr and Stepanoff almost periodic functions, positive definite functions, and the L1 and L2 theory of the Fourier integral. Applications to group theory and differential equations. See also MATH 8380. Prereq., MATH 5150 and 6320. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

ECON-8413 (3) Seminar: International Trade Theory

Covers theories of comparative advantage, including the classical, factor-proportions, fixed-factor, and noncompetitive markets models. Examines trade policy including trade barriers, market distortions, strategic policy, regional integration, political economy, and factor migration. Prereq., ECON 6413 or 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Economics International Trade & Finance

ECON-8423 (3) Seminar: International Finance

Highlights foreign exchange markets, past and current international monetary mechanisms, and processes of adjustment. Examines the role of international financial markets for the behavior of consumption, investment, saving, and production. Also considers international transmission of business cycles. Prereq., ECON 6423 or 7020.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-8433 (3) Seminar: Topics in Money and International Economics

Explores advanced work in various aspects of international economics, such as empirical trade analysis, public choice, and interactions between real and monetary phenomena in the world economy. Prereq., ECON 6413, 6423, 8413, or 8423. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-8534 (3) Economic History of North America

Examines North America's past from the perspective of economics. Topics include growth and welfare in the colonial period; staple products, agricultural development, and the emerging industrialism in the antebellum period; transformation of the North American economy to 1914; the interwar years and the Great Depression; and economic integration since 1945. Prereqs., ECON 6070 and 6080, or ECON 7010.

College of Arts & Sciences | Economics | Economic History

ECON-8535 (3) Environmental Economics I

Considers the allocation of society's scarce environmental resources and government attempts to achieve more efficient and equitable allocations. It is a course in applied welfare economics with an emphasis on market failure and valuation. Prereq., ECON 6535 and 6808; or ECON 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Natural Resources & Environ

ECON-8545 (3) Environmental Economics II

Provides advanced study of recent advances in environmental economics and explores opportunities for new research. Topics vary with interests of instructor and students. Prereqs., ECON 6535 and 6808, or ECON 7010 and ECON 8535. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Natural Resources & Environ

ECON-8555 (3) Water Resources Development and Management

Offers a research seminar in joint hydrologic-economic modeling and systems analysis. Addresses problems of joint water quantity-water quality management and joint surface-ground water management. Prereq., ECON 6555.

College of Arts & Sciences | Economics | Natural Resources & Environ

APPM-8600 (1) Seminar in Computational Mathematics

Introduces advanced topics and research in computational mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Applied Mathematics

ECON-8666 (1-3) Economic Demography

Investigates economic determinants and consequences of demographic behavior in developing and developed countries. Issues include fertility and female labor supply interactions, the demographic transition, the effect of population growth on income distribution, family investments in children, and intergenerational mobility. Prereqs., ECON 3070 and 3080.

College of Arts & Sciences | Economics | Labor and Human Resources

ECON-8676 (3) Seminar: Labor Economics 1

Focuses on the demand side of labor markets. Topics include standard static and dynamic models of labor demand, labor market discrimination, composition of compensation, labor hierarchies within enterprises, unionization, efficient contracts, and macroeconomics of labor markets. Prereq., ECON 6070 or 7010.

College of Arts & Sciences | Economics | Labor and Human Resources

ECON-8686 (3) Seminar: Labor Economics 2

Focuses on special topics in labor economics: dynamic theories of labor supply, employment, and unemployment; labor supply in a household framework; and labor market activity and income distribution. Explores both theoretical models and empirical tests in each area. Prereq., ECON 6070 or 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Labor and Human Resources

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MATH-8714 (3) Topics in Logic 1 and 2

[College of Arts & Sciences](#) [Mathematics](#)

ECON-8747 (3) Industrial Organization Theory

Highlights economics of regulation of industry and markets, industry studies, and the application of lab methods to industrial organization. Prereq., ECON 7010. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Industrial Organization](#)

ECON-8757 (3) Industrial Organization and Public Policy

Addresses the theory of interaction of firms within markets and industries, emphasizing importance of the number, relative size of firms, market institution, firm strategies, and nature of consumer demand. Examines neoclassical and game theoretic models, empirical industry studies, and laboratory tests of theoretical models and policies. Prereq., ECON 7010. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Industrial Organization](#)

ECON-8764 (3) History of Economic Development

Covers in historical perspective the causes of economic development including why some areas develop faster than others and why development occurs more rapidly in some eras than others. Prereq., ECON 6070 and 6080, or ECON 7010. Same as HIST 7214. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Economic History](#)

ECON-8774 (3) Seminar in Transition Economies

Focuses on the problems encountered in countries evolving from planned to market economies. Emphasizes applications of new and traditional models of economic growth and analysis of problems unique to formerly planned economies. Prereq., ECON 6774 or 7010.

College of Arts & Sciences | Economics | Economic Development

ECON-8784 (3) Economic Development

Explores empirical, theoretical, and policy issues in economic development. Examines political economy, income distribution and poverty, demographic change, labor force employment and migration, human capital, physical capital, natural resources and the environment, industrial structure, international trade and finance, stabilization policy, and structural adjustment. Prereqs., ECON 6774 or 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Economic Development

MATH-8815 (1-3) Ulam Seminar

May be repeated up to 3 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Mathematics

ECON-8828 (3) Seminar: Econometrics 1

First semester of two-semester sequence in econometrics for PhD students. Studies least squares and generalized least squares estimation of linear econometric models. Asymptotic (large sample) theory of inference. Some topics in the estimation of microdata. Prereq., ECON 7818. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8838 (3) Seminar: Econometrics 2

Teaches the advanced level of econometrics theory. Topics include asymptotic theory, maximum likelihood estimation, limited dependent variables analysis and other frontier areas of econometrics such as the method of moment estimation, semiparametric and nonparametric estimation procedure. Prereq., ECON 7828.

College of Arts & Sciences | Economics | Quantitative Economics

COMM-8840 (1-6) Doctoral Independent Study

May be repeated up to 18 total credit hours.

College of Arts & Sciences | Communication

EBIO-8840 (1-6) Independent Research (Doctoral Level)

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Ecology & Evolutionary Biology

SPAN-8840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences | Spanish | Spanish

ECON-8848 (3) Applied Microeconometrics

Presents a "User's guide" to conducting empirical research in applied microeconomics. Begins with a primer on an industry-standard econometric software package including programming techniques and data management. Introduces advanced econometric techniques including panel data methods, IV, matching models, regression discontinuity, and limited dependent variables models. Concludes with a research project requiring a replication and/or extension of an existing published paper. Prereqs., ECON 7818 and 7828. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8858 (3) Computational and Structural Estimation Methods

Teaches students to construct a variety of applied economic models, obtain parameter values through calibration or estimation techniques, and uses the resulting models to conduct policy simulations. Prereqs., ECON 7010 and 7818. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

MATH-8900 (1-3) Independent Study

Undergraduates must have approval of the instructor. May be repeated up to 6 total credit hours.

College of Arts & Sciences | Mathematics

PSCI-8901 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6901. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Political Science | American

PSCI-8902 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6902.

College of Arts & Sciences | Political Science | Comparative

PSCI-8903 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6903.

College of Arts & Sciences | Political Science | International Relations

PSCI-8904 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6904.

College of Arts & Sciences | Political Science | Political Theory

PSCI-8905 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6905.

College of Arts & Sciences | Political Science | Empirical Thry & Research Mthd

PSCI-8906 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6906.

College of Arts & Sciences | Political Science | Public Policy

PSCI-8908 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6908.

College of Arts & Sciences | Political Science | General

ECON-8909 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., instructor and department consent.

College of Arts & Sciences | Economics | Independent Study and Other

SLHS-8918 (3) Practicum 3: Classroom Instruction

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Practica

SLHS-8928 (3) Practicum 3: Research Coordination

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Practica



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ASEN-2001 (4) Aerospace 1: Introduction to Statics, Structures, and Materials

Introduces models and analytical/numerical methods for statics and structural analysis. Topics include force/moment equilibrium, truss analysis, beam theory, stress/strain, failure criteria, and structural design. Matlab proficiency required. Prereqs., APPM 1360, GEEN 1300 or CSCI 1300 or ECEN 1030 and PHYS 1110 (min. grade C). Coreq., ASEN 2002, 2012 or APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Structures, Mat, & Struc Dynam](#)

ASEN-3112 (4) Structures

Teaches Mechanics of Materials methods of stress and deformation analysis applicable to the design and verification of aircraft and space structures. It offers an introduction to matrix and finite element methods for truss structures, and to mechanical vibrations. Prereq., ASEN 2001, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Structures, Mat, & Struc Dynam](#)

ASEN-4012 (3) Aerospace Materials

Studies aerospace grade aluminum, magnesium, nickel, and titanium alloys. Covers heat treatment, defect structures, failure mechanisms, corrosion and its prevention, the effect of space radiation on materials, and high and low temperature effects. Introduces composite materials with a lab design and experiment. Emphasizes the selection of materials in design with procedures for choosing materials rationally. Case studies include aerogels, carbides, composites, powder metallurgy, nanomaterials, and advanced materials manufacturing technologies. Prerequisites: Requires pre-requisite course of ASEN 2001 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Structures, Mat, & Struc Dynam](#)

ASEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course.

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ASEN-4222 (3) Materials Science for Composite Manufacturing

Studies common matrix materials and the modifications and improvements of properties which can be achieved by adding second phase reinforcements. Properties will be significantly affected by the design approach and by requirements, and by the procedure of adding reinforcements. Investigates polymer, ceramic and metallic materials. Explores manufacturing, fabrication and processing techniques. Evaluates future developments. Prereq., ASEN 3112 or equivalent, or instructor consent. Coreq., ASEN 4012 or instructor consent. Same as ASEN 5222.

Prerequisites: Requires pre-requisite course of ASEN 3112 and pre-requisite or co-requisite course of ASEN 4012.

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ASEN-4338 (3) Computer Analysis of Structures

Covers basic structural design concepts and finite element modeling techniques. Emphasizes use of finite element static and dynamic analysis to validate and refine an initial design. Introduces basic design optimization and tailoring. Proficiency in Matlab required. Prereq., ASEN 3112. Prerequisites: Requires pre-requisite course of ASEN 3112.

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ASEN-5007 (3) Introduction to Finite Elements

Introduces finite element methods used for solving linear problems in structural and continuum mechanics. Covers modeling, mathematical formulation, and computer implementation. Prereq., matrix algebra. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5012 (3) Mechanics of Aerospace Structures

Applies fundamental concepts of continuum mechanics, theory of elasticity, and energy methods to the analysis of structures. Prereqs., APPM 2360 and ASEN 2001, 2003, and 3112, or equivalent. Similar to MCEN 5023. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5022 (3) Dynamics of Aerospace Structures

Applies concepts covered in undergraduate dynamics, structures, and mathematics to the dynamics of aerospace structural components, including methods of dynamic analysis, vibrational characteristics, vibration measurements, and dynamic stability. Prereqs., ASEN 5012, 5227, or equivalent. Recommended prereq., MATH 3130. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5111 (3) Introduction to Aeroelasticity

Introduces static and dynamic aeroelasticity of airfoils and wings. Covers the classical aeroelasticity theory and introduces computational methods for aeroelastic problems. Prereqs., ASEN 3111, MATH 3130, and MATH 4430, or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5122 (3) Control of Aerospace Structures 1

Introduces the basic problems in dynamic modeling and active control of large spacecraft and satellites. Includes system descriptions, model reduction, controller design, and closed-loop stability analysis. Prereq., ASEN 3200, graduate standing, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5212 (3) Composite Structures and Materials

Develops the macromechanical and micromechanical theory of the elastic behavior and failure of composite laminates. Applies basic theory to a broad range of practical problems including the buckling and vibration of composite plates, columns, and shells. Prereq., senior standing in aerospace or mechanical engineering, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat. & Struc Dynam |
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ASEN-5222 (3) Materials Science for Composite Manufacturing

Prereqs., ASEN 3112 and 4012 or equivalent, or instructor consent. Same as ASEN 4222. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5347 (3) Math Methods in Dynamics

Two-part graduate-level course on dynamics. Covers both flexible and rigid multibody analytical dynamics and finite element method for dynamics. Emphasizes formulations that naturally lead to easy computer implementation and stability, linearization, and modern rotational kinematics. Prereqs., graduate standing and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-6367 (3) Advanced Finite Element Methods for Plates, Shells, and Solids

Continues ASEN 5007. Covers more advanced FEM applications to linear static problems in structural and continuum mechanics. Focuses on modeling, formulation, and numerical solutions of problems modeled as plates, shells, and solids. Includes an overview of advanced variational formulations. Prereqs., introductory graduate level course in FEM and familiarity with linear algebra. Formerly ASEN 5367. Credit not granted for this course and ASEN 5367. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat. & Struc Dynam

ASEN-6517 (3) Computational Methods In Dynamics

Covers modeling, computational algorithms and their computer implementation for both linear and nonlinear dynamical systems. Topics covered include transient analysis, wave propagation, multiphysics analysis, and their significant engineering applications. Prereq., ASEN 5022. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-2001 (4) Aerospace 1: Introduction to Statics, Structures, and Materials

Introduces models and analytical/numerical methods for statics and structural analysis. Topics include force/moment equilibrium, truss analysis, beam theory, stress/strain, failure criteria, and structural design. Matlab proficiency required. Prereqs., APPM 1360, GEEN 1300 or CSCI 1300 or ECEN 1030 and PHYS 1110 (min. grade C). Coreq., ASEN 2002, 2012 or APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-2002 (4) Aerospace 2: Introduction to Thermodynamics and Aerodynamics

Introduces the fundamental principals and concepts of thermodynamics and fluid dynamic systems. Emphasizes the synthesis of basic science (physics), mathematics, and experimental methods that form the basis for quantitative and qualitative analyses of general aerospace technology systems. Proficiency in Matlab required. Prereqs., APPM 1360, GEEN 1300, CSCI 1300, or ECEN 1030 and PHYS 1110 (min. grade C). Coreqs., ASEN 2001, 2012 and APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3111 (4) Aerodynamics

Develops the fundamental concepts of aerodynamics and provides a working knowledge for their application to the design of aircraft and launch vehicles operating at various speeds and altitudes, as well as the atmospheric forces on satellites. Prereqs., APPM 2350, ASEN 2002 and 2004 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-5051 (3) Fluid Mechanics

Highlights physical properties of gases and liquids; kinematics of flow fields; and equations describing viscous, heat-conducting Newtonian fluids. Emphasizes exact solutions and rational approximations for low and high speed dissipative flows, surface and internal waves, acoustics, stability, and potential flows. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5151 (3) High Speed Aerodynamics

Provides aerodynamic theory applicable to the high speed flight of subsonic, transonic, and supersonic aircraft, and hypersonic vehicles. Topics include linear theory of subsonic and supersonic speeds, the nonlinear theories of transonic and hypersonic speeds, and compressible boundary layers. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-6021 (3) Viscous Flow

Studies low Reynolds number flows, including incompressible and compressible laminar boundary layer theory; similarity theory; and separation, transition, and turbulent boundary layers. Prereq., ASEN 5051 or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-6037 (3) Turbulent Flows

Studies turbulent closure methods and computational procedures used to solve practical turbulent flows. Emphasizes multi-equation models used with time-averaged equations to calculate free-turbulent shear-flows and turbulent boundary layers. Employs spectral methods in direct and large-eddy simulation of turbulence. Prereq., ASEN 5051 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-6061 (3) Molecular Gas Dynamics and DSMC

Describes the composition and flow of gases on a microscopic level to examine the behavior of the molecules that make up a macroscopic flow system. Thermodynamic properties, transport phenomena, and the governing Boltzmann Equation are derived from molecular collision dynamics and the kinetic theory. The Direct Simulation Monte Carlo method is introduced with applications. Restricted to graduate students or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-6327 (3) Computational Fluid Mechanics

Introduction to advanced computational methods for the solution of fluid mechanics problems on the computer with emphasis on nonlinear flow phenomena. Prereq., ASEN 5417 or instructor consent. Formerly ASEN 5327. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-6427 (3) Advanced Computational Fluid Dynamics

Introduces computational techniques particularly applicable to high-speed gas flows that contain shocks. Complicated numerical methods are developed from relatively simple numerical modules. Prereq., ASEN 5417 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-2003 (5) Aerospace 3: Introduction to Dynamics and Systems

Introduces the principles of particle and planar rigid body dynamics, systems, and controls. Topics include kinematics, kinetics, momentum and energy methods, system modeling, and simple feedback control. Class includes experimental and design laboratory exercises for aerospace applications of dynamic principles. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, ASEN 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2004. Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3300 (4) Aerospace Electronics and Communications

Provides the fundamentals of electronics and communications widely used in aerospace engineering. Includes analog instrumentation electronics, data acquisition, digital electronics, and radio communication. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, PHYS 1120 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 5114. Prerequisites: Requires pre-requisite courses of ASEN 3128 and ASEN 3200 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-5014 (3) Linear Control Systems

Introduces the theory of linear systems, including vector spaces, linear equations, structure of linear operators, state space descriptions of dynamic systems, and state feedback control methods. Prereq., ASEN 3200. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 4114. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

ASEN-6014 (3) Spacecraft Formation Flying

Studies the dynamic modeling and control of spacecraft formations orbiting about a planet. Investigate linear and nonlinear relative motion descriptions, rectilinear and curvilinear coordinates, orbit element difference based descriptions, J2-invariant relative orbits, as well as Lyapunov-based relative motion control strategies. Prereq., ASEN 5050 or equivalent, or instructor consent. May be repeated up to 6 total credit hours.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

ASEN-6024 (3) Nonlinear Control Systems

Introduces the analysis and control design methods for nonlinear systems, including Lyapunov and Describing Function methods. Prereq., ASEN 5014. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-2519 (1-6) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the lower-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Restricted to Engineering students.

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ASEN-2849 (1-3) Independent Study

Study of special projects agreed upon by student and instructor. May be repeated up to 9 total credit hours. Prereq., instructor consent.

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ASEN-3519 (1-4) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

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ASEN-3930 (6) Aerospace Engineering Cooperative Education

Students will participate in a previously arranged, department-sponsored cooperative education program with a government agency or industry. Recommended GPA above 3.0. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Aerospace Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-4519 (1-3) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-4849 (1-6) Independent Study

Special projects agreed upon by student and instructor. Instructor consent required.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-4859 (1-6) Undergraduate Research

Assigns a research problem on an individual basis. Instructor consent required.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-5519 (1-3) Selected Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Class Search. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-5849 (1-6) Independent Study

Study of special projects. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-5940 (3-6) Engineering Research Internship

Grants credit to foreign visiting graduate students for conducting research within the Aerospace Engineering Sciences department. Credits can be transferred to the student's home institution. CU-Boulder students may also receive credit for conducting research outside of the university, either overseas or in the US. Restricted to students in final year of undergraduate work and graduate students from CU-Boulder or foreign institutions. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6009 (1-2) Special Topics Seminar

Presents research and developments in each department's focus areas. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6107 (3) Nonlinear Finite Element Methods

Continuation of ASEN 5007. Covers the formulation and numerical solution of nonlinear static structural problems by finite element methods. Emphasizes the treatment of geometric nonlinearities and structural stability. Prereq., ASEN 5007. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6519 (1-3) Special Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6849 (1-6) Independent Study

Studies special projects agreed upon by student and instructor.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

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ASEN-2002 (4) Aerospace 2: Introduction to Thermodynamics and Aerodynamics

Introduces the fundamental principals and concepts of thermodynamics and fluid dynamic systems. Emphasizes the synthesis of basic science (physics), mathematics, and experimental methods that form the basis for quantitative and qualitative analyses of general aerospace technology systems. Proficiency in Matlab required. Prereqs., APPM 1360, GEEN 1300, CSCI 1300, or ECEN 1030 and PHYS 1110 (min. grade C). Coreqs., ASEN 2001, 2012 and APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-2003 (5) Aerospace 3: Introduction to Dynamics and Systems

Introduces the principles of particle and planar rigid body dynamics, systems, and controls. Topics include kinematics, kinetics, momentum and energy methods, system modeling, and simple feedback control. Class includes experimental and design laboratory exercises for aerospace applications of dynamic principles. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, ASEN 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2004. Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-2004 (5) Aerospace 4: Aerospace Vehicle Design and Performance

Introduction to design and analysis of aircraft and spacecraft. Aircraft topics include cruise performance, wing design, propulsion, stability, control, and structures. Spacecraft topics include rocket staging, orbit selection, launch systems, and spacecraft subsystems. Includes laboratory experiments and team design exercises. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, 2002, 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2003. Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-2012 (2) Experimental and Computational Methods in Aerospace Engineering Sciences

Introduces statistical, experimental, and computational methods used in aerospace engineering sciences. Usage of MatLab is extensive. Coreq., ASEN 2001 and 2002. Prereq., GEEN 1300 or CSCI 1300 or ECEN 1030 (min. grade C). Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-2519 (1-6) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the lower-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Restricted to Engineering students.

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ASEN-2849 (1-3) Independent Study

Study of special projects agreed upon by student and instructor. May be repeated up to 9 total credit hours. Prereq., instructor consent.

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ASEN-3036 (3) Introduction to Human Spaceflight

Introduces students to the challenges of human space flight. Historical and current space programs and spacecraft are discussed with emphasis on those systems specific to sustaining human crews. Other topics include space environment with respect to sustaining human life and health, physiological and psychological concerns in a space habitat, astronaut selection and training, anomalies, mission operations motivation, costs rationale for human space exploration, and future program directions. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

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ASEN-3046 (3) Introduction to Humans in Aviation

Investigates the history of manned aviation accomplished through a review of the history of flight, the physiological and psychological limitations facing aviators, and investigates the human related causal factors in aviation accidents. The course also looks at the social and economic impacts of aviation in modern society. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

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ASEN-3116 (3) Introduction to Biomedical Engineering

Addresses human responses to environment and physical stimuli. Makes use of engineering and physical principles in the study of human dynamics, arriving at reasonable solutions to 15 major areas of biomedical consent. Prereq., instructor consent.

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ASEN-4216 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two stand points: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 5216 and ECEN 4811. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

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ASEN-4426 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

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ASEN-4436 (3) Brains, Minds, Computers

An introductory, integrative survey of brain science, cognitive science, artificial intelligence, and their interrelations. Considers central concepts and principles from each of these areas and the similarities and difference of brain, minds, computers, robots, etc. Same as ASEN 5436 and ECEN 4831/5831. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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ASEN-5016 (3) Space Life Sciences

Familiarizes students with factors affecting living organisms in the reduced-gravity environment of space flight. Covers basic life support requirements, human physiological adaptations, and cellular-level gravity dependent processes with emphasis on technical writing and research proposal preparation. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity |
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ASEN-5116 (3) Spacecraft Life Support Systems

Provides a working knowledge of the systems needed to sustain human life in a spacecraft environment. Emphasis is on understanding functional requirements of a life support system; operational details of subsystem technologies; new concepts currently being considered in NASA's advanced programs; and conducting a technical trade study. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5216 (3) Neural Signals and Functional Brain Imaging

Same as ASEN 4216 and ECEN 5811. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5426 (3) Neural Systems and Physiological Control

Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5436 (3) Brains, Minds, Computers

Prereq., graduate standing. Same as ASEN 4436, ECEN 4831/5831. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5506 (1-2) Bioastronautics Seminar

Focuses on current topics related to space habitat systems design and research aimed at understanding the effects of spaceflight on living organisms ranging from humans down to microbes. Literature analysis and scientific presentations are expected. Emphasis is on biophysical mechanisms, comprehensive models, and related technology development. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-3113 (4) Thermodynamics and Heat Transfer

Focuses on the applications of the first and second laws of thermodynamics to control volumes and teaches the fundamental concepts of different modes of energy and heat transfer. Learn to use these concepts in gas dynamics, high-speed vehicle spacecraft design, environmental systems, and energy analysis. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN 2002 and APPM 2350 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Thermodynamics and Propulsion](#)

ASEN-4013 (3) Foundations of Propulsion

Describes aerothermodynamics and design of both rocket and air-breathing engines. Includes ramjets, turbojets, turbofans, and turboprop engines, as well as liquid, solid, and hybrid rockets. Prerequisites: Requires pre-requisite courses of ASEN 3113 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Thermodynamics and Propulsion](#)

ASEN-5053 (3) Rocket Propulsion

An in depth presentation of the theory, analysis, and design of rocket propulsion systems. Liquid and solid propellant systems are emphasized with an introduction to advanced propulsion concepts. Nozzle and fluid flow relationships are reviewed for background. Prereq., senior standing in ASEN or MCEN, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Thermodynamics and Propulsion](#)

ASEN-5063 (3) Gas Turbine Propulsion

Designed to teach the theory, analysis and design of modern gas turbine engines used for aircraft propulsion. Will deal with cycle and performance analyses, and analysis and design of compressors, turbines, intakes, nozzles and combustors as well as component matching. Prereq., ASEN 4013 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ASEN-6013 (3) High Speed Propulsion

Covers air-breathing and rocket propulsion cycles, their relative performance trade-offs, and how they fit within the context of a vehicle system. Specific emphasis will be placed on fundamental cycle analyses, component level design, and propulsion/airframe integration for rockets, turbojets, ramjets, scramjets, combined cycles, and other advanced propulsion concepts. Prereq., ASEN 4013 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-3036 (3) Introduction to Human Spaceflight

Introduces students to the challenges of human space flight. Historical and current space programs and spacecraft are discussed with emphasis on those systems specific to sustaining human crews. Other topics include space environment with respect to sustaining human life and health, physiological and psychological concerns in a space habitat, astronaut selection and training, anomalies, mission operations motivation, costs rationale for human space exploration, and future program directions. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

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ASEN-3046 (3) Introduction to Humans in Aviation

Investigates the history of manned aviation accomplished through a review of the history of flight, the physiological and psychological limitations facing aviators, and investigates the human related causal factors in aviation accidents. The course also looks at the social and economic impacts of aviation in modern society. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

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ASEN-3111 (4) Aerodynamics

Develops the fundamental concepts of aerodynamics and provides a working knowledge for their application to the design of aircraft and launch vehicles operating at various speeds and altitudes, as well as the atmospheric forces on satellites. Prereqs., APPM 2350, ASEN 2002 and 2004 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3112 (4) Structures

Teaches Mechanics of Materials methods of stress and deformation analysis applicable to the design and verification of aircraft and space structures. It offers an introduction to matrix and finite element methods for truss structures, and to mechanical vibrations. Prereq., ASEN 2001, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered fall only.

Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3113 (4) Thermodynamics and Heat Transfer

Focuses on the applications of the first and second laws of thermodynamics to control volumes and teaches the fundamental concepts of different modes of energy and heat transfer. Learn to use these concepts in gas dynamics, high-speed vehicle spacecraft design, environmental systems, and energy analysis. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN 2002 and APPM 2350 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3200 (4) Orbital Mechanics/Attitude Dynamics and Control

Presents the fundamentals of orbital mechanics, 3D rigid body dynamics, and satellite attitude dynamics and controls. Prereqs., ASEN 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, ASEN 2004, & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
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ASEN-4010 (3) Introduction to Space Dynamics

Includes central force fields, satellite orbits, rocket dynamics, orbital transfer, interplanetary mission analysis, and perturbation due to atmospheric drag and Earth oblateness. Prereq., ASEN 3200 or equivalent, or instructor consent required. Prerequisites: Requires pre-requisite course of ASEN 3200. Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Astrodynamics & Orbital Mech](#)

ASEN-5010 (3) Spacecraft Attitude Dynamics and Control

Includes rigid body kinematics and spacecraft attitude descriptions, torque-free attitude dynamics, static attitude determination, motion and stability due to gravity gradient torque and spinning craft, passive and active methods of attitude control, nonlinear regulator and attitude tracking feedback control laws. Prereq., ASEN 3200 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5050 (3) Space Flight Dynamics

Includes celestial mechanics, space navigation, and orbit determination; trajectory design and mission analysis trajectory requirements; and orbital transfer and rendezvous. Prereq., ASEN 3200 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-5070 (3) Introduction to Statistical Orbit Determination 1

Develops the theory of batch and sequential (Kalman) filtering, including a review of necessary concepts of probability and statistics. Course work includes a term project that allows students to apply classroom theory to an actual satellite orbit determination problem. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6008 (3) Interplanetary Mission Design

Exploration of principles and methods related to the design and construction of trajectories for interplanetary mission design. Some topics covered include: two-and three-body motion, gravity assists, maneuver computation, navigation, numerical integration, and construction of orbits. The main focus is on simple ballistic mission designs, such as Galileo or Cassini, however, libration point trajectories will also be covered. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6010 (3) Advanced Spacecraft Dynamics and Control

Studies the dynamic modeling and control of spacecraft containing multiple momentum exchange devices, and/or flexible spacecraft components. Will develop nonlinear feedback control algorithms, explore singularity avoidance strategies. The second half of the course derives analytical methods (D'Alembert's equations, Lagrange's equations, Boltzmann Hamel equations) to model a hybrid rigid/flexible spacecraft system. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prereq., ASEN 5010 or equivalent or instructor consent. Repeatable for credit up to 6 total credit hours. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6020 (3) Optimal Trajectories

Introduces the theory and practice of trajectory optimization. The general theory behind optimization and optimal control will be introduced with an emphasis on the properties of optimal trajectories. The main application will be to space trajectories, but other applications will also be considered. Prereq., ASEN 5050 or instructor consent. Recommended prereq., ASEN 5014. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6060 (3) Advanced Astrodynamics

Covers Lagrangian and Hamiltonian formalisms for astrodynamics problems, the computation and characterization of space trajectories in highly dynamic environments, computation of periodic orbits, stability analysis of orbital motion, and development of analytical theories for dynamics. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering

graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6070 (3) Satellite Geodesy

Focuses on the measurement of the Earth's gravitational field, rotational characteristics, and shape using Earth and space-based tracking of artificial satellites. Particular emphasis on satellite altimetry and satellite gravity measurements. Prereq., ASEN 3200 or instructor consent. Credit not granted for this course and ASEN 5060. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6080 (3) Introduction to Statistical Orbit Determination 2

Continuation of ASEN 5070. Emphasizes orthogonal transformation techniques such as Givens and Householder, square root filtering and smoothing, and considers covariance analysis. Also nonlinear filters and dynamic model compensation techniques. Requires term project that involves the application of many of the techniques required for precise orbit determination. Prereq., ASEN 5070. Formerly ASEN 5080. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-3116 (3) Introduction to Biomedical Engineering

Addresses human responses to environment and physical stimuli. Makes use of engineering and physical principles in the study of human dynamics, arriving at reasonable solutions to 15 major areas of biomedical consent. Prereq., instructor consent.

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ASEN-3128 (4) Aircraft Dynamics

Develops the fundamental concepts of aircraft dynamics. Covers flight mechanics, performance, dynamics and control of aircraft, and how they impact aircraft design. Prereqs., ASEN 2002, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2002, 2003, 2004 & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3200 (4) Orbital Mechanics/Attitude Dynamics and Control

Presents the fundamentals of orbital mechanics, 3D rigid body dynamics, and satellite attitude dynamics and controls. Prereqs., ASEN 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, ASEN 2004, & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3300 (4) Aerospace Electronics and Communications

Provides the fundamentals of electronics and communications widely used in aerospace engineering. Includes analog instrumentation electronics, data acquisition, digital electronics, and radio communication. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, PHYS 1120 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-3519 (1-4) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

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ASEN-3930 (6) Aerospace Engineering Cooperative Education

Students will participate in a previously arranged, department-sponsored cooperative education program with a government agency or industry. Recommended GPA above 3.0. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Aerospace Engineering majors only.

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ASEN-4010 (3) Introduction to Space Dynamics

Includes central force fields, satellite orbits, rocket dynamics, orbital transfer, interplanetary mission analysis, and perturbation due to atmospheric drag and Earth oblateness. Prereq., ASEN 3200 or equivalent, or instructor consent required. Prerequisites: Requires pre-requisite course of ASEN 3200. Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4012 (3) Aerospace Materials

Studies aerospace grade aluminum, magnesium, nickel, and titanium alloys. Covers heat treatment, defect structures, failure mechanisms, corrosion and its prevention, the effect of space radiation on materials, and high and low temperature effects. Introduces composite materials with a lab design and experiment. Emphasizes the selection of materials in design with procedures for choosing materials rationally. Case studies include aerogels, carbides, composites, powder metallurgy, nanomaterials, and advanced materials manufacturing technologies. Prerequisites: Requires pre-requisite course of ASEN 2001 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4013 (3) Foundations of Propulsion

Describes aerothermodynamics and design of both rocket and air-breathing engines. Includes ramjets, turbojets, turbofans, and turboprop engines, as well as liquid, solid, and hybrid rockets. Prerequisites: Requires pre-requisite courses of ASEN 3113 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4018 (4) Senior Projects 1: Design Synthesis

Focuses on the synthesis of technical knowledge, project management, design process, leadership, and communications within a team environment. Students progress through the design process beginning with requirements development, then preliminary design and culminating with critical design. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN, 3111, 3112, 3113, 3128, 3200, and 3300 (all min grade C). Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Aerospace Engineering (ASEN) majors only.

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ASEN-4028 (4) Senior Projects 2: Design Practicum

Focuses on the fabrication, integration, verification and validation of designs produced in ASEN 4018. Students work within the same teams from ASEN 4018. Instructor consent required. Offered spring only. Prerequisites: Requires pre-requisite course of ASEN 4018 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4047 (3) Probability and Statistics for Aerospace Engineering Sciences

Considers probability concepts and theory for better design and control of aerospace engineering systems. Includes descriptive and inferential statistical methods for experimental analysis. Also covers discrete and continuous random variable distributions, estimators, confidence intervals, regression, analysis of variance, hypothesis testing, nonparametric statistics, random processes, and quality control, including software models of same. Prereq., junior or graduate standing or instructor consent. Same as ASEN 5047.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Computational & Analytic Meth](#)

ASEN-4090 (3) Global Positioning Systems Applications

Focuses on GPS technology, software development, and applications. Lectures will cover the principal concepts used in GPS, and weekly laboratories will apply that knowledge. The course will culminate in student design projects using GPS. Prereqs., APPM 2360 and GEEN 1300 or equivalent. Recommended junior/senior standing in engineering.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Global Positioning Systems](#)

ASEN-4114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 5114. Prerequisites: Requires pre-requisite courses of ASEN 3128 and ASEN 3200 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Systems and Control](#)

ASEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat. & Struc Dynam

ASEN-4128 (3) Human Factors in Engineering and Design

Introduces the field of human factors engineering and investigates human psychological, physiological and performance limitations in complex systems and why it is vital for engineers to understand human operational limitations when designing complex systems. Course includes studies of real accidents caused by human error, good and bad designs, latent conditions and accident-producing designs. Goal is an understanding of how to conduct engineering design with consideration of human factors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4138 (3) Aircraft Design

Two lectures and one lab per week. Examines principles of aircraft configuration and design to meet given performance specifications, taking into account aerodynamic, stability and control, and flying quality considerations, as well as airworthiness regulations. Includes preliminary design of the major elements of an aircraft. Prereq., ASEN 3128. Restricted to ASEN majors. Prerequisites: Requires pre-requisite course of ASEN 3128. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4215 (3) Descriptive Physical Oceanography

Introduces descriptive and dynamical physical oceanography, focusing on the nature and dynamics of ocean currents and their role in the distribution of heat and other aspects of ocean physics related to the Earth's climate. Dynamical material limited to mathematical descriptions of oceanic physical systems. Restricted to seniors and graduate students. Same as ASEN 5215 and ATOC 4215. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S

ASEN-4216 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two stand points: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 5216 and ECEN 4811. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-4218 (3) Large Space Structures Design

Develops the necessary structural analysis skills for conducting conceptual and preliminary designs of large space structures with a practical emphasis on structures considered by NASA over the

past 20 years. Applies analysis skills to a broad range of space missions requiring large space structures, emphasizing low cost and practical design. Prereq., senior standing in ASEN or MCEN, or instructor consent. Same as ASEN 5218.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4222 (3) Materials Science for Composite Manufacturing

Studies common matrix materials and the modifications and improvements of properties which can be achieved by adding second phase reinforcements. Properties will be significantly affected by the design approach and by requirements, and by the procedure of adding reinforcements. Investigates polymer, ceramic and metallic materials. Explores manufacturing, fabrication and processing techniques. Evaluates future developments. Prereq., ASEN 3112 or equivalent, or instructor consent. Coreq., ASEN 4012 or instructor consent. Same as ASEN 5222. Prerequisites: Requires pre-requisite course of ASEN 3112 and pre-requisite or co-requisite course of ASEN 4012.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-4238 (3) Computer-Aided Control Systems Design

Covers Matlab and Simulink software, and multivariable control system synthesis and analysis techniques for typical aerospace control problems. Students formulate control problems and synthesize control functions using lineage quadratic techniques. Includes numerical integration of differential equations and nonlinear simulation of orbit and attitude dynamics. Prereq., APPM 2360.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4248 (3) Computer-Aided Control System Design 2

Studies theory and engineering applications of Kalman filter techniques. Covers discrete and continuous filters, the extended Kalman filter, and their application to guidance, navigation, and control, including satellite orbit and attitude problems, inertial and control navigation, and the Global Positioning System. Prerequisites: Requires pre-requisite course of ASEN 4238.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-4255 (3) Environmental Aerodynamics

a review of the properties and causes of hazards posed by the environment, ranging from atmospheric wind shear to tornadic flows. Involves a multidisciplinary approach combining analytical, numerical, scale modeling studies with extensive field measurements, wind energy, and biophysical aerodynamics. Prereq., senior standing in ASEN. Same as ASEN 5255.

College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S

ASEN-4338 (3) Computer Analysis of Structures

Covers basic structural design concepts and finite element modeling techniques. Emphasizes use of finite element static and dynamic analysis to validate and refine an initial design. Introduces basic design optimization and tailoring. Proficiency in Matlab required. Prereq., ASEN 3112. Prerequisites: Requires pre-requisite course of ASEN 3112.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-4426 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-4436 (3) Brains, Minds, Computers

An introductory, integrative survey of brain science, cognitive science, artificial intelligence, and their interrelations. Considers central concepts and principles from each of these areas and the similarities and difference of brain, minds, computers, robots, etc. Same as ASEN 5436 and ECEN 4831/5831. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-4519 (1-3) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-4849 (1-6) Independent Study

Special projects agreed upon by student and instructor. Instructor consent required.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-4859 (1-6) Undergraduate Research

Assigns a research problem on an individual basis. Instructor consent required.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-5007 (3) Introduction to Finite Elements

Introduces finite element methods used for solving linear problems in structural and continuum mechanics. Covers modeling, mathematical formulation, and computer implementation. Prereq., matrix algebra. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat. & Struc Dynam

ASEN-5010 (3) Spacecraft Attitude Dynamics and Control

Includes rigid body kinematics and spacecraft attitude descriptions, torque-free attitude dynamics, static attitude determination, motion and stability due to gravity gradient torque and spinning craft, passive and active methods of attitude control, nonlinear regulator and attitude tracking feedback control laws. Prereq., ASEN 3200 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-5012 (3) Mechanics of Aerospace Structures

Applies fundamental concepts of continuum mechanics, theory of elasticity, and energy methods to the analysis of structures. Prereqs., APPM 2360 and ASEN 2001, 2003, and 3112, or equivalent. Similar to MCEN 5023. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat. & Struc Dynam

ASEN-5014 (3) Linear Control Systems

Introduces the theory of linear systems, including vector spaces, linear equations, structure of linear operators, state space descriptions of dynamic systems, and state feedback control methods. Prereq., ASEN 3200. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

ASEN-5016 (3) Space Life Sciences

Familiarizes students with factors affecting living organisms in the reduced-gravity environment of space flight. Covers basic life support requirements, human physiological adaptations, and cellular-level gravity dependent processes with emphasis on technical writing and research proposal preparation. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5018 (3) Graduate Projects I

Exposes MS and PhD students to project management and systems engineering disciplines while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this first semester of the two-semester course sequence: requirements, definition, design and design review, build, test, and verification. Recommended prereqs., ASEN 4138, or 5148, or 5158.

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ASEN-5022 (3) Dynamics of Aerospace Structures

Applies concepts covered in undergraduate dynamics, structures, and mathematics to the dynamics of aerospace structural components, including methods of dynamic analysis, vibrational characteristics, vibration measurements, and dynamic stability. Prereqs., ASEN 5012, 5227, or equivalent. Recommended prereq., MATH 3130. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Structures, Mat, & Struc Dynam](#)

ASEN-5034 (3) Stochastic Methods for Systems Engineering

Same as ASEN 4034. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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[Aerospace Engineering](#)
[Aerospace Design & System Engr](#)

ASEN-5047 (3) Probability and Statistics for Aerospace Engineering Sciences

Same as ASEN 4047. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Computational & Analytic Meth](#)

ASEN-5050 (3) Space Flight Dynamics

Includes celestial mechanics, space navigation, and orbit determination; trajectory design and mission analysis trajectory requirements; and orbital transfer and rendezvous. Prereq., ASEN 3200 or

instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-5051 (3) Fluid Mechanics

Highlights physical properties of gases and liquids; kinematics of flow fields; and equations describing viscous, heat-conducting Newtonian fluids. Emphasizes exact solutions and rational approximations for low and high speed dissipative flows, surface and internal waves, acoustics, stability, and potential flows. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-5053 (3) Rocket Propulsion

An in depth presentation of the theory, analysis, and design of rocket propulsion systems. Liquid and solid propellant systems are emphasized with an introduction to advanced propulsion concepts. Nozzle and fluid flow relationships are reviewed for background. Prereq., senior standing in ASEN or MCEN, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ASEN-5063 (3) Gas Turbine Propulsion

Designed to teach the theory, analysis and design of modern gas turbine engines used for aircraft propulsion. Will deal with cycle and performance analyses, and analysis and design of compressors, turbines, intakes, nozzles and combustors as well as component matching. Prereq., ASEN 4013 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Thermodynamics and Propulsion

ASEN-5070 (3) Introduction to Statistical Orbit Determination 1

Develops the theory of batch and sequential (Kalman) filtering, including a review of necessary concepts of probability and statistics. Course work includes a term project that allows students to apply classroom theory to an actual satellite orbit determination problem. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-5090 (3) Introduction to Global Navigation Satellite Systems

Global Navigation Satellite Systems (GNSS) are important tools for navigation, science, and engineering. Introduces GNSS hardware, signal structure, algorithms, error sources, and modeling techniques. Programming experience is required. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

ASEN-5111 (3) Introduction to Aeroelasticity

Introduces static and dynamic aeroelasticity of airfoils and wings. Covers the classical aeroelasticity theory and introduces computational methods for aeroelastic problems. Prereqs., ASEN 3111, MATH 3130, and MATH 4430, or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-5114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 4114. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Systems and Control

ASEN-5116 (3) Spacecraft Life Support Systems

Provides a working knowledge of the systems needed to sustain human life in a spacecraft environment. Emphasis is on understanding functional requirements of a life support system; operational details of subsystem technologies; new concepts currently being considered in NASA's advanced programs; and conducting a technical trade study. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5122 (3) Control of Aerospace Structures 1

Introduces the basic problems in dynamic modeling and active control of large spacecraft and satellites. Includes system descriptions, model reduction, controller design, and closed-loop stability analysis. Prereq., ASEN 3200, graduate standing, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-5148 (3) Spacecraft Design

Integrates the design elements and fundamental analyses necessary to complete the conceptual (Phase A) design of an unmanned spacecraft. Lecture and discussion explore mission design, propulsion, power, structure, thermal, attitude control, communication, command, and data handling and attitude control systems. The role of project management and systems engineering are examined. Resource estimating and lessons learned in satellite programs are reviewed. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5151 (3) High Speed Aerodynamics

Provides aerodynamic theory applicable to the high speed flight of subsonic, transonic, and supersonic aircraft, and hypersonic vehicles. Topics include linear theory of subsonic and supersonic speeds, the nonlinear theories of transonic and hypersonic speeds, and compressible boundary layers. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to College of

Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics |
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ASEN-5158 (3) Space Habitat Design

Utilizes systems engineering methods for designing a spacecraft intended for human occupancy and provides a working knowledge of the technologies used to sustain life. Emphasis is placed on deriving functional requirements from stated mission objectives, developing integrated vehicle schematics, and comparing design options by trade study. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-5168 (3) Remote Sensing Instrumentation Design

Reviews and makes a detailed analysis of satellite instrumentation techniques and systems to understand the components, limitations, and overall capabilities. Emphasis on optical systems with in-depth treatment of conventional radiometry. Introduces both passive and microwave methods. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-5188 (3) Space Systems Engineering

Develop an understanding and appreciation for the fundamentals and pragmatic principles of systems engineering and their application to space missions. This course establishes a working knowledge of the primary techniques systems engineers use to guide the development of complex systems, including: requirements development, system synthesis, good design practices, system optimization, exception handling, interface management and trade studies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-5212 (3) Composite Structures and Materials

Develops the macromechanical and micromechanical theory of the elastic behavior and failure of composite laminates. Applies basic theory to a broad range of practical problems including the buckling and vibration of composite plates, columns, and shells. Prereq., senior standing in aerospace or mechanical engineering, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam |
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ASEN-5215 (3) Descriptive Physical Oceanography

Same as ASEN 4215 and ATOC 5215. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S |
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ASEN-5216 (3) Neural Signals and Functional Brain Imaging

Same as ASEN 4216 and ECEN 5811. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5218 (3) Large Space Structures Design

Same as ASEN 4218. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

ASEN-5222 (3) Materials Science for Composite Manufacturing

Prereqs., ASEN 3112 and 4012 or equivalent, or instructor consent. Same as ASEN 4222. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-5227 (3) Mathematics for Aerospace Engineering Sciences 1

Provides an introduction to the methods and mathematics of advanced engineering analysis tailored to aerospace engineering applications. Topics include vector and tensor calculus, ordinary differential equations, and an introduction to the calculus of variations. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Computational & Analytic Meth

ASEN-5235 (3) Introduction to Atmospheric Radiative Transfer and Remote Sensing

Examines fundamentals of radiative transfer and remote sensing with primary emphasis on the Earth's atmosphere; emission, absorption and scattering by molecules and particles; multiple scattering; polarization; radiometry and photometry; principles of inversion theory; extinction- and emission-based passive remote sensing; principles of active remote sensing; lidar and radar; additional applications such as the greenhouse effect and Earth's radiative energy budget. Same as ATOC 5235. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Remote Sensing



Courses

Search by College, Department & Category

College/School**Department****Category**

Search by Course Number

Subject**Number**

ASEN-5245 (3) Radar and Remote Sensing

Examines active techniques of remote sensing, with emphasis on radar fundamentals, radar wave propagation, scattering processes, and radar measurement techniques and design. Examines specific radar systems and applications, such as synthetic aperture radar phased arrays for atmosphere, space, land, and sea applications. Restricted to seniors or graduate students in engineering. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Remote Sensing](#)

ASEN-5255 (3) Environmental Aerodynamics

Reviews the properties and causes of hazards posed by the environment, ranging from atmospheric wind shear to tornadic flows. Involves a multidisciplinary approach, combining analytical, numerical, and scale modeling studies with extensive field measurements, wind energy, and biophysical aerodynamics. Prereq., senior standing in aerospace engineering. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Atmospheric, Oceanic & Space S](#)

ASEN-5307 (3) Engineering Data Analysis Methods

Gives students broad exposure to a variety of traditional and modern statistical methods for filtering and analyzing data. Topics include estimation methods, principal component analyses and spectral analyses. Introduces these methods and provides practical experience with their use. Students carry out problem assignments. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Computational & Analytic Meth](#)

ASEN-5315 (3) Ocean Modeling

Introduces students to basic principles behind, and the current practices in, ocean modeling. Discusses different prevailing approaches. Offers students hands-on experience with the use of supercomputers and work stations for model running and pre- and post-processing. Prereqs., graduate standing or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S

ASEN-5325 (3) Small Scale Processes in Geophysical Fluids

Provides an overview of mixing and wave processes in the oceans and the atmosphere. Topics include turbulent boundary layers in the lower atmosphere and the upper ocean, air-sea interactions, and surface and internal waves. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S

ASEN-5335 (3) Aerospace Environment

Examines the components of the solar-terrestrial system and their interactions to provide an understanding of the re-entry and orbital environments within which aerospace vehicles operate. Includes the sun, solar wind, magnetosphere, ionosphere, thermosphere, radiation belts, energetic particles, comparative environments (Mars, Venus, etc.), orbital debris, spacecraft charging, particle effects on systems, shielding, and satellite drag. Prereq., senior or graduate standing in engineering or related physical sciences. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S

ASEN-5347 (3) Math Methods in Dynamics

Two-part graduate-level course on dynamics. Covers both flexible and rigid multibody analytical dynamics and finite element method for dynamics. Emphasizes formulations that naturally lead to easy computer implementation and stability, linearization, and modern rotational kinematics. Prereqs., graduate standing and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-5417 (3) Numerical Methods for Differential Equations

Provides computational skills and basic knowledge of numerical methods for advanced courses in engineering/scientific computation using Fortran, C, or Matlab. Prereq., APPM 2360 and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Computational & Analytic Meth

ASEN-5426 (3) Neural Systems and Physiological Control

Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5436 (3) Brains, Minds, Computers

Prereq., graduate standing. Same as ASEN 4436, ECEN 4831/5831. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5506 (1-2) Bioastronautics Seminar

Focuses on current topics related to space habitat systems design and research aimed at understanding the effects of spaceflight on living organisms ranging from humans down to microbes. Literature analysis and scientific presentations are expected. Emphasis is on biophysical mechanisms, comprehensive models, and related technology development. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Bioastronautics & Microgravity

ASEN-5519 (1-3) Selected Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Class Search. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-5849 (1-6) Independent Study

Study of special projects. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-5940 (3-6) Engineering Research Internship

Grants credit to foreign visiting graduate students for conducting research within the Aerospace Engineering Sciences department. Credits can be transferred to the student's home institution. CU-Boulder students may also receive credit for conducting research outside of the university, either overseas or in the US. Restricted to students in final year of undergraduate work and graduate students from CU-Boulder or foreign institutions. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-6008 (3) Interplanetary Mission Design

Exploration of principles and methods related to the design and construction of trajectories for interplanetary mission design. Some topics covered include: two-and three-body motion, gravity assists, maneuver computation, navigation, numerical integration, and construction of orbits. The main focus is on simple ballistic mission designs, such as Galileo or Cassini, however, libration point trajectories will also be covered. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-6009 (1-2) Special Topics Seminar

Presents research and developments in each department's focus areas. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6010 (3) Advanced Spacecraft Dynamics and Control

Studies the dynamic modeling and control of spacecraft containing multiple momentum exchange devices, and/or flexible spacecraft components. Will develop nonlinear feedback control algorithms, explore singularity avoidance strategies. The second half of the course derives analytical methods (D'Alembert's equations, Lagrange's equations, Boltzmann Hamel equations) to model a hybrid rigid/flexible spacecraft system. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prereq., ASEN 5010 or equivalent or instructor consent. Repeatable for credit up to 6 total credit hours. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-6013 (3) High Speed Propulsion

Covers air-breathing and rocket propulsion cycles, their relative performance trade-offs, and how they fit within the context of a vehicle system. Specific emphasis will be placed on fundamental cycle analyses, component level design, and propulsion/airframe integration for rockets, turbojets, ramjets, scramjets, combined cycles, and other advanced propulsion concepts. Prereq., ASEN 4013 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Thermodynamics and Propulsion

ASEN-6014 (3) Spacecraft Formation Flying

Studies the dynamic modeling and control of spacecraft formations orbiting about a planet. Investigate linear and nonlinear relative motion descriptions, rectilinear and curvilinear coordinates, orbit element difference based descriptions, J2-invariant relative orbits, as well as Lyapunov-based relative motion control strategies. Prereq., ASEN 5050 or equivalent, or instructor consent. May be repeated up to 6 total credit hours.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ASEN-6020 (3) Optimal Trajectories

Introduces the theory and practice of trajectory optimization. The general theory behind optimization and optimal control will be introduced with an emphasis on the properties of optimal trajectories. The main application will be to space trajectories, but other applications will also be considered. Prereq., ASEN 5050 or instructor consent. Recommended prereq., ASEN 5014. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-6021 (3) Viscous Flow

Studies low Reynolds number flows, including incompressible and compressible laminar boundary layer theory; similarity theory; and separation, transition, and turbulent boundary layers. Prereq., ASEN 5051 or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-6024 (3) Nonlinear Control Systems

Introduces the analysis and control design methods for nonlinear systems, including Lyapunov and Describing Function methods. Prereq., ASEN 5014. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ASEN-6028 (3) Graduate Projects II

Exposes MS and PhD students to leadership positions in project management and systems engineering while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this second semester of the two-semester course sequence: requirements definition, design and design review, build, test, and verification. Prereq., ASEN 5018. Recommended prereq., ASEN 4138, or 5148, or 5158. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-6037 (3) Turbulent Flows

Studies turbulent closure methods and computational procedures used to solve practical turbulent flows. Emphasizes multi-equation models used with time-averaged equations to calculate free-turbulent shear-flows and turbulent boundary layers. Employs spectral methods in direct and large-eddy simulation of turbulence. Prereq., ASEN 5051 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-6060 (3) Advanced Astrodynamics

Covers Lagrangian and Hamiltonian formalisms for astrodynamics problems, the computation and characterization of space trajectories in highly dynamic environments, computation of periodic orbits, stability analysis of orbital motion, and development of analytical theories for dynamics. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

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Courses

Search by College, Department & Category

College/School**Department****Category**

Search by Course Number

Subject**Number**

ASEN-6061 (3) Molecular Gas Dynamics and DSMC

Describes the composition and flow of gases on a microscopic level to examine the behavior of the molecules that make up a macroscopic flow system. Thermodynamic properties, transport phenomena, and the governing Boltzmann Equation are derived from molecular collision dynamics and the kinetic theory. The Direct Simulation Monte Carlo method is introduced with applications. Restricted to graduate students or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-6070 (3) Satellite Geodesy

Focuses on the measurement of the Earth's gravitational field, rotational characteristics, and shape using Earth and space-based tracking of artificial satellites. Particular emphasis on satellite altimetry and satellite gravity measurements. Prereq., ASEN 3200 or instructor consent. Credit not granted for this course and ASEN 5060. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-6080 (3) Introduction to Statistical Orbit Determination 2

Continuation of ASEN 5070. Emphasizes orthogonal transformation techniques such as Givens and Householder, square root filtering and smoothing, and considers covariance analysis. Also nonlinear filters and dynamic model compensation techniques. Requires term project that involves the application of many of the techniques required for precise orbit determination. Prereq., ASEN 5070. Formerly ASEN 5080. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-6090 (3) Advanced Global Navigation Satellite Systems: Software and Applications

Focuses on high-precision applications of Global Navigation Satellite Systems (GNSS) and the software tools that are needed to achieve these precisions. Topics include precise orbital determination, reference frames, atmospheric delays, relativity, clock models, ambiguity resolution, and scientific applications. Prereq., ASEN 5090. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

ASEN-6091 (3) Global Navigation Satellite System (GNSS) Receiver Architecture

Investigates the overall architecture of satellite navigation receivers: including both the analog radio frequency conditioning (antenna to the analog-to-digital converter) and the various signal processing algorithms. Such treatment of the operation of the receiver will provide insight into the trade-offs that go into GNSS as well as the more broad generic spread spectrum receiver design. Recommended prereq., ASEN 5090. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

ASEN-6107 (3) Nonlinear Finite Element Methods

Continuation of ASEN 5007. Covers the formulation and numerical solution of nonlinear static structural problems by finite element methods. Emphasizes the treatment of geometric nonlinearities and structural stability. Prereq., ASEN 5007. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-6210 (1-3) Remote Sensing Seminar

Covers subjects pertinent to remote sensing of the Earth, including oceanography, meteorology, vegetation monitoring, and geology. Emphasizes techniques for extracting geophysical information from satellite data. Course requirement for Remote Sensing Certificate. Restricted to graduate students. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Remote Sensing

ASEN-6220 (3) Topics in Remote Sensing

Covers infrared and microwave techniques for remote sensing, emphasizing oceanographic applications, fundamentals of electromagnetic radiation, remote sensing instrumentation (radars and radiometers), and conversion of sensory data to geophysical parameters, including sea surface topography, temperature, and atmospheric moisture. Prereq., graduate standing and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Remote Sensing

ASEN-6327 (3) Computational Fluid Mechanics

Introduction to advanced computational methods for the solution of fluid mechanics problems on the computer with emphasis on nonlinear flow phenomena. Prereq., ASEN 5417 or instructor consent. Formerly ASEN 5327. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-6337 (3) Remote Sensing Data Analysis

Reviews satellite remote sensing instrumentation and methods. Student teamwork involves real satellite data for applications in oceanography, atmospheric science, and terrestrial physics. Students develop problem-solving skills and use the internet to gather satellite and in situ data to address chosen problems. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Remote Sensing

ASEN-6367 (3) Advanced Finite Element Methods for Plates, Shells, and Solids

Continues ASEN 5007. Covers more advanced FEM applications to linear static problems in structural and continuum mechanics. Focuses on modeling, formulation, and numerical solutions of problems modeled as plates, shells, and solids. Includes an overview of advanced variational formulations. Prereqs., introductory graduate level course in FEM and familiarity with linear algebra. Formerly ASEN 5367. Credit not granted for this course and ASEN 5367. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-6427 (3) Advanced Computational Fluid Dynamics

Introduces computational techniques particularly applicable to high-speed gas flows that contain shocks. Complicated numerical methods are developed from relatively simple numerical modules. Prereq., ASEN 5417 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-6517 (3) Computational Methods In Dynamics

Covers modeling, computational algorithms and their computer implementation for both linear and nonlinear dynamical systems. Topics covered include transient analysis, wave propagation, multiphysics analysis, and their significant engineering applications. Prereq., ASEN 5022. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-6519 (1-3) Special Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6849 (1-6) Independent Study

Studies special projects agreed upon by student and instructor.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

ASEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

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ASEN-4128 (3) Human Factors in Engineering and Design

Introduces the field of human factors engineering and investigates human psychological, physiological and performance limitations in complex systems and why it is vital for engineers to understand human operational limitations when designing complex systems. Course includes studies of real accidents caused by human error, good and bad designs, latent conditions and accident-producing designs. Goal is an understanding of how to conduct engineering design with consideration of human factors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

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ASEN-4138 (3) Aircraft Design

Two lectures and one lab per week. Examines principles of aircraft configuration and design to meet given performance specifications, taking into account aerodynamic, stability and control, and flying quality considerations, as well as airworthiness regulations. Includes preliminary design of the major elements of an aircraft. Prereq., ASEN 3128. Restricted to ASEN majors. Prerequisites: Requires pre-requisite course of ASEN 3128. Restricted to Aerospace Engineering (ASEN) majors only.

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ASEN-4218 (3) Large Space Structures Design

Develops the necessary structural analysis skills for conducting conceptual and preliminary designs of large space structures with a practical emphasis on structures considered by NASA over the past 20 years. Applies analysis skills to a broad range of space missions requiring large space structures, emphasizing low cost and practical design. Prereq., senior standing in ASEN or MCEN, or instructor consent. Same as ASEN 5218.

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ASEN-4238 (3) Computer-Aided Control Systems Design

Covers Matlab and Simulink software, and multivariable control system synthesis and analysis techniques for typical aerospace control problems. Students formulate control problems and synthesize control functions using lineage quadratic techniques. Includes numerical integration of differential equations and nonlinear simulation of orbit and attitude dynamics. Prereq., APPM 2360.

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ASEN-4248 (3) Computer-Aided Control System Design 2

Studies theory and engineering applications of Kalman filter techniques. Covers discrete and continuous filters, the extended Kalman filter, and their application to guidance, navigation, and control, including satellite orbit and attitude problems, inertial and control navigation, and the Global Positioning System. Prerequisites: Requires pre-requisite course of ASEN 4238.

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ASEN-5018 (3) Graduate Projects I

Exposes MS and PhD students to project management and systems engineering disciplines while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this first semester of the two-semester course sequence: requirements, definition, design and design review, build, test, and verification. Recommended prereqs., ASEN 4138, or 5148, or 5158.

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ASEN-5034 (3) Stochastic Methods for Systems Engineering

Same as ASEN 4034. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5148 (3) Spacecraft Design

Integrates the design elements and fundamental analyses necessary to complete the conceptual (Phase A) design of an unmanned spacecraft. Lecture and discussion explore mission design, propulsion, power, structure, thermal, attitude control, communication, command, and data handling and attitude control systems. The role of project management and systems engineering are examined. Resource estimating and lessons learned in satellite programs are reviewed. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5158 (3) Space Habitat Design

Utilizes systems engineering methods for designing a spacecraft intended for human occupancy and provides a working knowledge of the technologies used to sustain life. Emphasis is placed on deriving functional requirements from stated mission objectives, developing integrated vehicle schematics, and comparing design options by trade study. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5168 (3) Remote Sensing Instrumentation Design

Reviews and makes a detailed analysis of satellite instrumentation techniques and systems to understand the components, limitations, and overall capabilities. Emphasis on optical systems with in-depth treatment of conventional radiometry. Introduces both passive and microwave methods. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5188 (3) Space Systems Engineering

Develop an understanding and appreciation for the fundamentals and pragmatic principles of systems engineering and their application to space missions. This course establishes a working knowledge of the primary techniques systems engineers use to guide the development of complex systems, including: requirements development, system synthesis, good design practices, system optimization, exception handling, interface management and trade studies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-5218 (3) Large Space Structures Design

Same as ASEN 4218. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN-6028 (3) Graduate Projects II

Exposes MS and PhD students to leadership positions in project management and systems engineering while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this second semester of the two-semester course sequence: requirements definition, design and design review, build, test, and verification. Prereq., ASEN 5018. Recommended prereq., ASEN 4138, or 5148, or 5158. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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CHEN-2120 (3) Chemical Engineering Material and Energy Balances

Provides a basic understanding of chemical engineering calculations involving material and energy balances around simple chemical processes. Prerequisites: Requires pre-requisite courses of CHEN 1211 and GEEN 1300 (all min grade C-).

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CHEN-2810 (3) Biology for Engineers

Develops a basic understanding of the science of biology, including an introduction to the disciplines of biochemistry, cell organization, metabolism, genetics, genomics, molecular biology, recombinant DNA technology and evolution. Provides a basic introduction to several key techniques used in biological engineering laboratories. Uses examples of complex and creative structures engineered by natural processes.

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CHEN-2840 (1-4) Independent Study

Available to sophomores with approval of Department of Chemical Engineering. Subject arranged to fit needs of student.

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CHEN-3010 (3) Applied Data Analysis

Teaches students to analyze and interpret data. Topics include engineering measurements, graphical presentation and numerical treatment of data, statistical inference, and regression analysis.

Prerequisites: Requires pre-requisite course of GEEN 1300.

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CHEN-3130 (2) Chemical Engineering Laboratory 1

One four-hour lab session per week. Investigates chemical engineering fluid flow, heat transfer, and thermodynamics. Emphasizes communication by written reports and oral presentations as well as laboratory safety. Prereq., CHEN 3010, 3200, 3320 and either CHEN 3210 or MCEN 3022 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3010 and CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320 and CHEN 3210 (or MCEN 3022).

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CHEN-3200 (3) Chemical Engineering Fluid Mechanics

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to chemical engineering systems. Prereqs., APPM 2350 and either CHEN 2120 (min. grade C) or MCEN 2023 (min. grade C). Coreq., APPM 2360. Same as GEEN 3853.

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CHEN-3210 (3) Chemical Engineering Heat Transfer

Examines conservation and transfer of thermal energy. Focuses on conduction and convection of heat in the context of chemical processes, with a special focus on heat exchangers. Also studies thermal radiation. Prerequisites: Requires pre-requisite courses of either CHEN 3200 or MCEN 3021 (all min grade C-).

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CHEN-3220 (3) Chemical Engineering Separations and Mass Transfer

Studies separation methods including distillation, absorption, and extraction, and graphical and computer-based solutions to separation problems. Also studies mass transfer rate processes, including diffusion, microscopic material balances, and correlations for mass transfer coefficients. Applies mass transfer rate theory to packed and tray columns. Prerequisites: Requires prerequisite courses of CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320.

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CHEN-3320 (3) Chemical Engineering Thermodynamics

Applies thermodynamic principles to nonideal systems, phase equilibrium, chemical equilibrium, power generation, refrigeration, and chemical processes. Prereqs., CHEN 2120 (min. grade C) and either CHEM 4511 or 4521 (min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 2120 and either CHEM 4511 or 4521 (all min grade C-).

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CHEN-3840 (1-4) Independent Study

Available to juniors with approval of the Department of Chemical Engineering. Subject arranged to fit needs of the student.

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CHEN-3930 (6) Chemical Engineering Cooperative Education

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program. Prereqs., CHEN 2120 (min. grade C) and GPA higher than 2.85. GPA higher than 3.00 strongly recommended.

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CHEN-4010 (2) Chemical Engineering Senior Thesis 1

Provides an opportunity for advanced students to conduct exploratory research in chemical engineering.

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CHEN-4020 (2) Chemical Engineering Senior Thesis 2

Continuation of CHEN 4010. CHEN 4010 and 4020 can substitute for CHEN 4130.

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CHEN-4090 (1) Senior Seminar

Provides chemical engineering career and professional information, facilitates contact with faculty and industry representatives, and improves communication and leadership skills. Consists of a series of seminars and field trips and requires a research project involving a written and oral report. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

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CHEN-4130 (2) Chemical Engineering Laboratory 2

Involves planning and execution of chemical engineering experiments on mass transfer operations, separations, and chemical reactors. Interprets experimental data with theoretical principles and statistical analysis. Emphasizes communication with written memos, full reports, and oral presentations. Prerequisites: Requires pre-requisite courses of CHEN 3130, 3220, 3320, 4330 (all min grade C-).

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CHEN-4330 (3) Chemical Engineering Reaction Kinetics

Introduces chemical kinetics and chemical reactor design. Involves mass and energy balances for steady-state and transient reactor systems. Also covers residence time distribution, mass transfer, catalytic reactions, and multiple steady states in reactors. Prerequisites: Requires pre-requisite courses of CHEN 3320 and APPM 2360.

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CHEN-4440 (3) Chemical Engineering Materials

Introduces materials engineering, including properties of polymers, metals, ceramics, and semiconductors, especially as related to chemical engineering processes. Prereq., CHEN 3320 and CHEM 3311 (min grade C-).

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CHEN-4450 (3) Polymer Chemistry

Introduces polymer science with a focus on polymer chemistry and polymerization reactions. Focuses on polymerization reaction engineering and how polymer properties depend on structure. Same as CHEN 5450. Prerequisites: Requires pre-requisite courses of CHEN 4830 or CHEM 3311 and CHEN 4330 (all min grade C-).

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CHEN-4460 (3) Polymer Engineering

Introductory polymer engineering course reviewing basic terminology and definitions; the properties and synthetic routes of important industrial polymers; and processing of polymers and their applications. Prereq., CHEM 3311 and CHEN 3320 (min. grade C-). Same as CHEN 5460. Prerequisites: Requires pre-requisite courses of CHEM 3311 and CHEN 3320.

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CHEN-4520 (3) Chemical Process Synthesis

Studies applied chemical process design including equipment specification and economic evaluation. Prerequisites: Requires pre-requisite courses of CHEN 3210, 3220, and 4330 or 4830 (all min grade C-).

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CHEN-4530 (2) Chemical Engineering Design Project

Provides a team-based capstone design experience for chemical engineering students. Projects are sponsored by industry and student design teams collaborate with industrial consultants. Projects consider chemical process and product design with emphasis on economic analysis. Deliverables include an oral mid-project design review, a final oral presentation and final written design report. Prereq., CHEN 4520 (min. grade C-). Prerequisites: Requires pre-requisite course of CHEN 4520.

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CHEN-4570 (4) Instrumentation and Process Control

Examines principles of control theory and their application to chemical processes. Focuses on single-loop feedback and feedforward control. Laboratory sessions cover measurement fundamentals, signal transmission, dynamic testing, control system synthesis, and implementation and adjustment. Prereqs., CHEN 3220, 4330 or 4830, and APPM 2360 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3220 and CHEN 4330 (or CHEN 4830) and APPM 2360 (all min grade C-).

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CHEN-4630 (1) Intellectual Property Law and Engineering

Learn the fundamentals of the various types of intellectual property, obtain the ability to search the USPTO database for patents, learn the difference between provisional patents, utility patents and foreign patents, and learn the timing requirements related to the filing of patents and public disclosure, use, and/or sale of an invention. Restricted to seniors. Same as CHEN 5630.

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CHEN-4650 (3) Particle Technology

Aims to identify the important physical mechanisms occurring in processes involving particles, formulate and solve mathematical descriptions of such processes, and analyze experimental and theoretical results in both a qualitative and quantitative manner. Teaches students to apply this knowledge to the design of particulate systems. Conveys the breadth and depth of natural and industrial applications involving particulates. Prereq., APPM 2360 and CHEN 3200 or MCEN 3021 (all min. grade C-). Same as CHEN 5650.

[College of Engineering & Applied Science](#)
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CHEN-4670 (3) Environmental Separations

Lect. Covers traditional, as well as new, chemical separations processes that have environmental applications. Includes chemically benign processing (pollution prevention) as well as approaches to address existing pollution problems. Same as CHEN 5670. Prerequisites: Requires pre-requisite course of CHEN 3220. Restricted to students with 57-180 credits (Junior or Senior) or graduate students only.

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[Chemical Engineering](#)

CHEN-4800 (3) Bioprocess Engineering

Reviews the recent developments in the fields of microbiology, molecular genetics, and genetic engineering that are of commercial value and benefit to mankind. Covers engineering implementation of such biological processes. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students in engineering. Same as CHEN 5800.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4801 (3) Pharmaceutical Biotechnology

Focuses on the engineering needed to bring therapeutic products derived from living organisms (e.g., proteins, peptides, DNA, RNA) from the production plant to the patient. Covers the challenges of keeping these products "active" as they are stored, shipped, and administered to patients. Prereq., CHEN 3320 (min. grade C-). Coreq., CHEN 4330 or 4830. Prerequisites: Requires pre-requisite courses of CHEN 3320 and pre-requisite or co-requisite courses of CHEN 4830 or CHEN 4330.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4803 (3) Metabolic Engineering

Introduces basic concepts in metabolic engineering and explores modern approaches in metabolic and strain engineering. Application areas that will be discussed will include the use of metabolic engineering approaches in biofuels and biorefining as well as biopharmaceutical production. CHEN 4803 and 5803 are the same course. Prerequisites: Requires pre-requisite course of CHEM 4711 or CHEM 4611.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4805 (3) Biomaterials

Provides an overview of biomaterials. Covers major classes of materials used in medical applications, properties, degradation mechanisms, and characterization methods, foreign body response, methods to control physiological response to biomaterial surfaces, biocompatibility, biomaterials used in soft and hard tissue replacements, drug delivery devices and tissue engineering, and design criteria for developing a material for a given biological application. Prereq., CHEM 3311 (min. grade C-). Same as CHEN 5805. Prerequisites: Requires a pre-requisite course of CHEN 2810 or MCDB 1150 or EBIO 1220 and 1230.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4810 (2) Biological Engineering Laboratory

Involves planning and execution of chemical engineering experiments on mass transfer operations, bioseparations, and biological reactors. Interprets experimental data with theoretical principles and statistical analysis. Emphasizes communication with written memos, full reports and oral presentations. Prerequisites: Requires pre-requisite courses of CHEN 2810 and CHEN 4830 and requires a co-requisite course of CHEN 4820.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4820 (3) Biochemical Separations

Lect. and lab. Presents purification methods, mass transfer coefficients, problems specific to biologicals, and scale-up of processes. Also covers chromatography, phase extraction, supercritical fluids, sedimentation, precipitation, electrophoresis, dialysis, affinity techniques, cell separation, application of separations to bioreactors, and comparison of batch and continuous processes. Prereq., senior standing or above in engineering or science. Same as CHEN 5820. Prerequisites: Requires pre-requisite course of CHEN 3220.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4830 (3) Chemical Engineering Biokinetics

Introduces chemical kinetics, chemical reactor design, and biological kinetics. Involves mass and energy balances for steady-state and transient reactor systems. Also covers residence time distribution, mass transfer, catalytic reactions, multiple steady states in reactors, enzyme kinetics, metabolic networks, and cell growth kinetics. Prerequisites: Requires pre-requisite course of CHEN 3320.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4836 (3) Nanomaterials

Presents fundamental chemical and physical concepts that give rise to the unique optical, electronic and magnetic properties of nanoscale materials. Introduces important synthetic routes for producing nanomaterials, and interparticle forces governing colloidal behavior and self-assembly. Discusses current and potential applications in catalysis, biomedicine, renewable energy, and other fields. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students only. CHEN 4836 and 5836 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4838 (1-3) Special Topics in Chemical Engineering

Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4840 (1-4) Independent Study

Available to seniors with approval of chemical engineering department. Subject arranged to fit needs of student.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5090 (1) Seminar in Chemical Engineering

Required of all chemical engineering graduate students. Includes reports on research activities and on special current topics. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5127 (3) Applied Statistics for the Manufacturing and Process Industries

Discusses the concepts and techniques of applied statistics essential to quality control and product/process improvement. Includes computer control (SQC/SPC), sampling methods and time series analysis, and methods of experimental design. Prereq., MCEN 4120. Same as CVEN 5127 and MCEN 5126.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5128 (3) Applied Statistics In Research and Development

Students learn current and emerging statistical methods that are appropriate to experimentation in research and development activities. Statistical design of experiments and model fitting is emphasized. Prereq., one introductory probability/statistics course. Same as MCEN 5146.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5210 (4) Transport Phenomena

Considers continuum mechanics, emphasizing fundamental relationships for fluid mechanics and heat transfer and their applications to engineering problems. Prereq., senior or graduate standing and undergraduate courses in fluid mechanics, heat transfer, and differential equations.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5220 (3) Mass Transport

Examines fundamentals of mass transport with particular attention to microscopic balances in complex systems, such as those involving multiple components, chemical reaction, simultaneous heat and mass transport, and/or high mass flux. Prereq., CHEN 5210, undergraduate mass transfer, and familiarity with vector and tensor calculus.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5333 (3) Research Methods and Ethics

Prepares graduate students to carry out independent research. Research ethics, laboratory skills, experimental methods, critical thinking, presentations, proposal preparation and career planning are discussed. Independent research project carried out under direction of chemical engineering faculty. Prereq., graduate standing.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5343 (1) Research Methods and Ethics Seminar

Prepares graduate students to carry out independent research. Focuses on topics such as safety, ethics, communication skills, data analysis, intellectual property considerations, and time management. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5360 (3) Catalysis and Kinetics

Studies principles of chemical kinetics and catalytic reactions, emphasizing heterogeneous catalysis. Coreq., CHEN 4330, or prereq., CHEM 4551 and instructor consent, or graduate standing in CHEM or CHEN.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5370 (3) Intermediate Chemical Engineering Thermodynamics

Reviews fundamentals of thermodynamics, application to pure fluids and mixtures, and physical equilibrium and changes of state. Examines the equation of state and computation of fluid properties for pure fluids, mixtures, and solutions. Also looks at relations between thermodynamics and statistical mechanics. Prereq., undergraduate thermodynamics (CHEN 3320 or equivalent). Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5390 (3) Chemical Reactor Engineering

Studies ideal and nonideal chemical reactors, including unsteady state behavior, mixing effects, reactor stability, residence time distribution, and diffusion effects. Prereq., undergraduate course in chemical reactor design/kinetics.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5420 (3) Physical Chemistry and Fluid Mechanics of Interfaces

Covers thermodynamics of interfaces and surface tension measurement; adsorption at liquid-gas, liquid-liquid, and solid-gas interfaces; monolayers; conservation equations for a fluid interface; rheology of interfaces; surface tension driven flows; contact angle and wettability; and double layer phenomena. Prereq., CHEN 3200 or equivalent.

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CHEN-5450 (3) Polymer Chemistry

Same as CHEN 4450.

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CHEN-5460 (3) Polymer Engineering

Same as CHEN 4460.

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CHEN-5630 (1) Intellectual Property Law and Engineering

Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5650 (3) Particle Technology

Extra work required for graduate course. Same as CHEN 4650.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5670 (3) Environmental Separations

Lect. Covers traditional, as well as new, chemical separations processes that have environmental applications. Includes chemically benign processing (pollution prevention) as well as approaches to address existing pollution problems. Extra work required for graduate course. Same as CHEN 4670.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5740 (3) Analytical Methods in Chemical Engineering

Presents applied analytical and numerical mathematical methods in the context of chemical engineering problems. Topics include modeling techniques, algebraic equations, and ordinary and partial differential equations. Prereq., senior or graduate standing; working knowledge of computing, calculus, differential equations, linear algebra, and vector operations; and undergraduate courses in physics, fluid mechanics, heat transfer, and reaction engineering. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5750 (3) Numerical Methods in Chemical Engineering

Covers numerical methods for solving ordinary differential, partial differential, and integral equations. These principles are employed to develop, test, and assess computer programs for solving problems of interest to chemical engineers. Prereq., graduate standing or instructor consent.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5800 (3) Bioprocess Engineering

Same as CHEN 4800, except that a major term report is required.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5803 (3) Metabolic Engineering

Introduces basic concepts in metabolic engineering and explores modern approaches in metabolic and strain engineering. Application areas that will be discussed will include the use of metabolic engineering approaches in biofuels and biorefining as well as biopharmaceutical production. CHEN 4803 and 5803 are the same course. Prerequisites: Requires pre-requisite courses of APPM 2360 and CHEM 4731 or CHEM 4611.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5805 (3) Biomaterials

Same as CHEN 4805.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5820 (3) Biochemical Separations

Extra work required for graduate course. Same as CHEN 4820. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5830 (1) Introduction to Modern Biotechnology

Introduces students to the biotechnology enterprise. Topics include the biotechnology industry and profession, the various academic disciplines of biotechnology, intellectual property, financing, and ethics.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5831 (2) Biotechnology Case Studies

Capstone course required of all graduate students in the interdisciplinary graduate biotechnology certificate program. Reviews molecular genetics, product synthesis and purification, economics, intellectual property, and business planning. Working in teams, students present a biotechnology product plan. Prereq., CHEN 5830.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5835 (3) Colloids and Interfaces

Provides a deep exploration of the fundamental principles of colloid and interface science and of related applications. Core topics include fundamental equations of interfacial science, capillary phenomena, interfacial thermodynamics interfaces, molecular monolayers, electrical surface properties, and interfacial forces. Advanced topics include wetting phenomena, adsorption isotherms, dynamic interfacial behavior, surface modification, tribology, surfactant self-assembly, and foams/emulsions among others. Prereq., CHEN 3320 (min. grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-5836 (3) Nanomaterials

Presents fundamental chemical and physical concepts that give rise to the unique optical, electronic and magnetic properties of nanoscale materials. Introduces important synthetic routes for producing nanomaterials, and interparticle forces governing colloidal behavior and self-assembly. Discusses current and potential applications in catalysis, biomedicine, renewable energy, and other fields. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students only. CHEN 4836 and 5836 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5838 (1-3) Special Topics in Chemical Engineering

Graduate-selected topics courses offered upon demand. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5840 (1-4) Independent Study

Available to MS and PHD students.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5900 (3) Pharmaceutical Biotechnology

Incorporates biochemistry, pharmaceutical science, and engineering for application in the pharmaceutical industry. Emphasizes microscale mechanisms affecting drug delivery, bioavailability, and stability. Specific topics include thermodynamics of macromolecular conformational stability, crystallization kinetics, interfacial phenomena, and industrial protein folding. Prereq., graduate standing.

College of Engineering & Applied Science | Chemical Engineering

CHEN-6210 (3) Microhydrodynamics of Suspensions and Colloids

Focuses on fluid mechanics and colloid science of suspensions of particles, cells, and drops. Covers fundamentals, applications, and research frontiers. Prereq., CHEN 5210 or equivalent.

College of Engineering & Applied Science | Chemical Engineering

CHEN-6820 (3) Biochemical Engineering Fundamentals

Covers design and operation of fermentation processes, microbial and enzyme kinetics, multiple substrate and multiple species of fermentation, regulation of enzyme activity, energetics of cellular growth, immobilized enzyme and cell reactors, and transport phenomena in microbial systems and downstream processing. Prereq., graduate standing in CHEM, CHEN, or MCDB, or instructor consent.

College of Engineering & Applied Science | Chemical Engineering

CHEN-6940 (1) Master's Candidate

College of Engineering & Applied Science | Chemical Engineering

CHEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Chemical Engineering

CHEN-8990 (1-10) Doctoral Thesis

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CSCI-2824 (3) Discrete Structures

Covers foundational materials for computer science that is often assumed in advanced courses. Topics include set theory, Boolean algebra, functions and relations, graphs, propositional and predicate calculus, proofs, mathematical induction, recurrence relations, combinatorics, discrete probability. Focuses on examples based on diverse applications of computer science.

Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

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CSCI-3104 (4) Algorithms

Covers advanced data structures, computational geometry, cryptography, dynamic programming, greedy algorithms, divide-and-conquer, graph algorithms (e.g., depth-first search), network algorithms (e.g., shortest paths), approximation algorithms. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

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CSCI-3434 (3) Theory of Computation

Introduces the foundations of formal language theory, computability, and complexity. Shows relationship between automata and various classes of languages. Addresses the issue of which problems can be solved by computational means, and studies complexity of solutions. Prereq., CSCI 3104 and 3155. Prerequisites: Requires pre-requisite courses of CSCI 3104 and CSCI 3155 (minimum grade C-).

[College of Engineering & Applied Science](#)
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CSCI-4314 (3) Algorithms for Molecular Biology

Surveys combinatorial algorithms used to understand DNA, RNA, and proteins. Introduces students to methods used to process genomic data. Topics covered include a review of algorithms and molecular biology, sequence analysis, RNA and protein structure analysis, and comparative genomics. Students will get hands-on experience processing recent genomic data. Prereqs., CSCI 2270 and CSCI 3104, or CHEM 4711, or MCDB3500 or Iphy 4200. Same as CSCI 5314 and MCDB 4314.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5314 (3) Algorithms for Molecular Biology

Same as CSCI 4314 and MCDB 5314. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5444 (3) Introduction to Theory of Computation

Reviews regular expressions and finite automata. Studies Turing machines and equivalent models of computation, the Chomsky hierarchy, context-free grammars, push-down automata, and computability. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5454 (3) Design and Analysis of Algorithms

Techniques for algorithm design, analysis of correctness and efficiency; divide and conquer, dynamic programming, etc. Advanced data structures, algorithms in graph theory, geometry, Vlsi, linear algebra, etc. Lower bounds, Np-completeness, intractability. Prereqs., CSCI 2270 or equivalent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5654 (3) Linear Programming

Presents algorithms, simplex, and modifications. Examines theory---duality and complementary slackness. Involves network flow algorithms. Introduces integer programming. Prereq., linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5714 (3) Formal Languages

Explores context-free languages: pumping lemma and variants, closure properties, and decision properties. Involves parsing algorithms, including general and special languages, e.g., LR. Additional topics chosen by instructor. Prereq., CSCI 5444 or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-6454 (3) Advanced Algorithms

Topics include matching and network flows, matroids, computational geometry, parallel computation (PRAM, hypercube, mesh). Also includes Vlsi, database theory, distributed computation, cryptography, robotics, scheduling, probabilistic algorithms, approximation algorithms, average case, and amortized analysis, time permitting. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-7154 (3) Topics in Theory of Computation

Selected topics of current interest in theory of computation. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

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CSCI-2270 (4) Computer Science 2: Data Structures

Studies data abstractions (e.g., stacks, queues, lists, trees) and their representation techniques (e.g., linking, arrays). Introduces concepts used in algorithm design and analysis including criteria for selecting data structures to fit their applications. Prereqs., CSCI 1300, and one of APPM 1350 or MATH 1300. Prerequisites: Requires pre-requisite courses of CSCI 1300 and either APPM 1350 or MATH 1300 (minimum grade C-).

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CSCI-2400 (4) Computer Systems

Covers how programs are represented and executed by modern computers, including low-level machine representations of programs and data, an understanding of how computer components influence performance and memory hierarchy. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

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CSCI-2824 (3) Discrete Structures

Covers foundational materials for computer science that is often assumed in advanced courses. Topics include set theory, Boolean algebra, functions and relations, graphs, propositional and predicate calculus, proofs, mathematical induction, recurrence relations, combinatorics, discrete probability. Focuses on examples based on diverse applications of computer science.

Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

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CSCI-2830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the sophomore level. Content varies from semester to semester.

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CSCI-2900 (1-3) Lower Division, Undergraduate Level Independent Study

Offers selected topics at the elementary level for students with little or no previous computing experience.

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CSCI-3002 (3) Human-Centered Computing Foundations

Introduces practice and research in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[Artificial Intelligence](#)

CSCI-3112 (1-3) Human-Centered Computing Professional Development

Supports students in developing professional skills and practices in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as ATLS 3112.

[College of Engineering & Applied Science](#)
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CSCI-3202 (3) Introduction to Artificial Intelligence

Surveys artificial intelligence techniques of search, knowledge representation and reasoning, probabilistic inference, machine learning, and natural language processing. Introduces artificial intelligence programming. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

[College of Engineering & Applied Science](#)
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CSCI-3302 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-3702 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problems, nature versus nurture, conceptual structure and metaphor, logic/problem solving, and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and PSYC 3005.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4202 (3) Artificial Intelligence 2

Second course in artificial intelligence. Topics may vary, but typically cover neural networks, natural language processing, and artificial life. Prereq., CSCI 3202 or instructor consent.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 5302.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4312 (3) Health Informatics

Teaches students essential skills necessary for developing usable assistive and performance support systems, which include consideration of the academic and professional interdisciplinary issues that govern the work. An overview of ongoing and emerging topics in medical informatics will be presented. Prereq., CSCI 2270. Recommended prereq., CSCI 3002. Same as CSCI 5312.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4342 (3) Groupware and Workflow Systems

Supports students in developing professional skills and knowledge concerning the use of computer technologies to support collaborative activities. Also covers the impact of digital collaboration

technologies on users, groups, organizations and society. Students will gain practical experience with Business Process Management and the use of Workflow Management Systems. Same as CSCI 5342.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4412 (3) Design, Creativity, and New Media

Explores the design of new media and technologies to support design and creativity. Analyzes design and creativity as human activities of fundamental importance in the networked information culture and economy. Provides theoretical and practical analysis of new media. Instructor consent required. Recommended prereq., CSCI 3002. Instructor consent required. Same as CSCI 5412.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 4302.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5312 (3) Health Informatics

Same as CSCI 4312. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5342 (3) Groupware and Workflow Systems

Same as CSCI 4342. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5412 (3) Design, Creativity, and New Media

Same as CSCI 4412. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5582 (3) Artificial Intelligence

Surveys artificial intelligence methods, theories, and applications. Studies the relationship between artificial intelligence and psychology, linguistics, and philosophy. Introduces artificial intelligence programming. Prereq., CSCI 3155 or equivalent. Same as ECEN 5583. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5622 (3) Machine Learning

Trains students to build computer systems that learn from experience. Includes the three main subfields: supervised learning, reinforcement learning and unsupervised learning. Emphasizes practical and theoretical understanding of the most widely used algorithms (neural networks, decision trees, support vector machines, Q-learning). Covers connections to data mining and statistical modeling. A strong foundation in probability, statistics, multivariate calculus, and linear algebra is highly recommended. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5722 (3) Computer Vision

Explores algorithms that can extract information about the world from images or sequences of images. Topics covered include: imaging models and camera calibration, early vision (filters, edges, texture, stereo, optical flow), mid-level vision (segmentation, tracking), vision-based control, and object recognition. Recommended prereq., probability, multivariate calculus, and linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5832 (3) Natural Language Processing

Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs. Prereq., graduate standing or instructor consent. Same as LING 5832. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-6302 (3) Speech Recognition and Synthesis

Introduction to automatic speech recognition and understanding, conversational agents, dialogue systems, and speech synthesis/text-to-speech. Topics include the noisy channel model, Hidden Markov Models, A* and Viterbi decoding, language modeling (N-grams, entropy), concatenative synthesis, text normalization, dialogue and conversation modeling. Prereqs., CSCI 5582 or 5832, or LING 5200, and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-6402 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. Prereqs., graduate standing, or at least one course at the 3000-level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science will be presumed. Same as EDUC 6504, LING 6200, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-6622 (3) Advanced Machine Learning

Covers advanced theoretical and practical topics in machine learning and latest developments in the field. Students conduct original research, either applied or theoretical, and present their results. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7212 (3) Topics in Symbolic Artificial Intelligence

Topics vary from year to year. Possible topics include search; knowledge representation and natural language understanding; deduction, planning, problem solving, and automatic programming; instruction and cognitive models; vision and speech; and learning, induction, and concept formation. Prereq., CSCI 5582 or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CSCI-7222 (3) Topics in Nonsymbolic Artificial Intelligence

Topics vary from year to year. Possible topics include human and machine vision, signal and speech processing, artificial life, mathematical foundations of connectionism, and computational learning theory. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CSCI-3155 (4) Principles of Programming Languages

Study fundamental concepts on which programming of languages are based, and execution models supporting them. Topics include values, variables, bindings, type systems, control structures, exceptions, concurrency, and modularity. Learn how to select a language and to adapt to a new language. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Programming Languages](#)

CSCI-4555 (3) Compiler Construction

Introduces the basic techniques used in translating programming languages: scanning, parsing, definition table management, operator identification and coercion, code selection and register allocation, error recovery. Students build a complete compiler for a simple language. Prereqs., CSCI 2400 or ECEN 3350 and CSCI 2824. Same as ECEN 4553 and CSCI 5525.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Programming Languages](#)

CSCI-5525 (3) Compiler Construction

Offers practical experience using state-of-the-art CAD tools on high-performance workstations. Provides skills needed to rapidly create little languages for specific problem domains and familiarizes students with automated software development. Prereqs., CSCI 2824 or ECEN 3703 and CSCI 2400 or ECEN 2120. Same as ECEN 5523 and CSCI 4555. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Programming Languages](#)

CSCI-5535 (3) Fundamental Concepts of Programming Languages

Considers concepts common to a variety of programming languages--how they are described (both formally and informally) and how they are implemented. Provides a firm basis for comprehending new languages and gives insight into the relationship between languages and machines. Prereq., CSCI 3155, or instructor consent. Same as ECEN 5533. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Programming Languages

CSCI-7135 (3) Topics in Programming Languages

Topics selected by instructor. Possible topics are syntax, semantics, metacompilers, compiler design, and translator writing systems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

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CSCI-3002 (3) Human-Centered Computing Foundations

Introduces practice and research in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming.

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CSCI-3104 (4) Algorithms

Covers advanced data structures, computational geometry, cryptography, dynamic programming, greedy algorithms, divide-and-conquer, graph algorithms (e.g., depth-first search), network algorithms (e.g., shortest paths), approximation algorithms. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

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CSCI-3112 (1-3) Human-Centered Computing Professional Development

Supports students in developing professional skills and practices in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as ATLS 3112.

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CSCI-3155 (4) Principles of Programming Languages

Study fundamental concepts on which programming of languages are based, and execution models supporting them. Topics include values, variables, bindings, type systems, control structures, exceptions, concurrency, and modularity. Learn how to select a language and to adapt to a new language. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

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CSCI-3202 (3) Introduction to Artificial Intelligence

Surveys artificial intelligence techniques of search, knowledge representation and reasoning, probabilistic inference, machine learning, and natural language processing. Introduces artificial intelligence programming. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

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CSCI-3287 (3) Database and Information Systems

Surveys data management, including file systems, database management systems design, physical data organizations, data models, query languages, concurrency, and database protection. Prereq., CSCI 3104. Prerequisites: CSCI 3287 PREREQ

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CSCI-3287 (3) Database and Information Systems

Surveys data management, including file systems, database management systems design, physical data organizations, data models, query languages, concurrency, and database protection. Prereq., CSCI 3104. Prerequisites: CSCI 3287 PREREQ

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CSCI-4317 (3) Genome Databases: Mining and Management

Develops essential skills for performing genomic analyses, with focus on developing practical research tools. Introduces human genome and microbiome projects, Python/SQL scripting, accessing and understanding genomic data, sequence alignment and search, evolutionary models, expression data, biological networks, and macromolecular structure. Prereqs., MCDB 3500, CSCI 3104, or CHEM 4711; coreq., CSCI 2270. Same as CSCI 5317. Credit not granted for this course and CHEM 4621 or MCDB 4621.

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[Computer Science](#)
[Database Systems](#)

CSCI-5317 (3) Genome Databases: Mining and Management

Same as CSCI 4317. Credit not granted for this course and CHEM 5621 or MCDB 5621. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

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CSCI-5417 (3) Information Retrieval Systems

Addresses practical issues in the design, implementation and analysis of modern information retrieval systems. The major focus is on Web-based applications including ad hoc retrieval, classification, and clustering. Introduces the use of open source retrieval systems, standard evaluation metrics and gold-standard evaluation collections. Formerly CSCI 7000. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-5817 (3) Database Systems

Provides an advanced treatment of basic database concepts. Prereq., CSCI 2270. Recommended prereq., CSCI 3287 and 3753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-7717 (3) Topics in Database Systems

Studies topics such as distributed databases, database interfaces, data models, database theory, and performance measurement in depth. Prereq., CSCI 5817 or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CSCI-3308 (3) Software Engineering Methods and Tools

Focuses on software engineering methods and tools for application development, including design and system organization; using and creating reusable libraries; building, testing, and debugging; and performance evaluation. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-4308 (4) Software Engineering Project 1

Advanced practicum in which students design, implement, document and test software systems for use in industry, non-profits, government and research institutions. Also offers extensive experience in oral and written communication throughout the software lifecycle. Students must take CSCI 4308 and 4318 contiguously, as the project spans the entire academic year. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, Computer Science electives, and WRTG 3030. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Computer Science (CSCI) majors or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-4318 (4) Software Engineering Project 2

Second semester of an advanced practicum in computer science. Students must take CSCI 4308 and 4318 contiguously as the project spans the entire academic year. Prereq., CSCI 4308.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-4448 (3) Object-Oriented Analysis and Design

An applied analysis and design class addressing the use of object-oriented techniques. Topics include domain modeling, use cases, architectural design, and modeling notations. Students apply the techniques in analysis and design projects. Prereq., CSCI 3155 or expertise in one or more object-oriented programming languages, such as C++ or Java. Same as CSCI 5448.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5448 (3) Object-Oriented Analysis and Design

Same as CSCI 4448. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5548 (3) Software Engineering of Standalone Programs

Applies engineering principles to phases of software product development, project planning, requirements definition, design, implementation, validation, and maintenance. Emphasizes practical methods for communicating and verifying definitions and designs---prototyping, inspections, and modeling. Includes relation to RTS and object-oriented programming. Prereqs., CSCI 1300, CSCI 2270, or instructor consent. Same as ECEN 5543. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5608 (3) Software Project Management

Presents topics and techniques critical to the management of software product development, including estimating, planning, quality, tracking, reporting, team organization, people management, and legal issues. Gives special attention to problems unique to software projects. Prereqs., ECEN 4583, CSCI 5548 and 4318, or equivalent industrial experience. Same as ECEN 5603 and EMEN 5031. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5828 (3) Foundations of Software Engineering

Explores techniques, languages, and tools for development and maintenance of software systems. Topics include specification languages, configuration modeling, testing techniques, process modeling, program annotations, and program proofs. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-6268 (3) Foundations of Computer and Network Security

Studies methods to protect information, and the ability to process and move information, from theft, misuse, tampering, destruction, and unauthorized access. Introduces foundational topics of computer and network security, including security models, cryptography, and authentication protocols. Prereq., CSCI 5273. Same as TLEN 5550. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-7818 (3) Topics in Software Engineering

Studies selected topics of current interest in software engineering. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

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CSCI-3656 (3) Numerical Computation

Covers development, computer implementation, and analysis of numerical methods for applied mathematical problems. Topics include floating point arithmetic, numerical solution of linear systems of equations, root finding, numerical interpolation, differentiation, and integration. Prereqs., two semesters of calculus, linear algebra, and either CSCI 1200 or 1300.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-4446 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, CSCI 1200, 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 5446 and ECEN 4423. Prerequisites: Requires pre-requisite course of CSCI 1200 or 1300 and PHYS 1110 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-4576 (4) High-Performance Scientific Computing

Introduces computing systems, software, and methods used to solve large-scale problems in science and engineering. Students use high-performance workstations and a supercomputer. First course in a two-semester sequence. Recommended prereq., CSCI 3656. Same as CSCI 5576.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-4586 (4) High-Performance Scientific Computing 2

Introduces computing systems, software, and methods to solve large-scale problems in science and engineering. Students use high-performance workstations and a supercomputer. Second course in a two-semester sequence. Prereq., CSCI 4576.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5446 (3) Chaotic Dynamics

Same as CSCI 4446 and ECEN 5423. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5576 (4) High-Performance Scientific Computing

Same as CSCI 4576. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5606 (3) Principles of Numerical Computation

Highlights computer arithmetic, solution of linear systems, least-squares approximations, nonlinear algebraic equations, interpolation, and quadrature. Prereqs., CSCI 3656 and three semesters of calculus, or equivalent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5636 (3) Numerical Solution of Partial Differential Equations

Focuses on finite difference solution for partial differential equations, methods of SoR, ADI, conjugate gradients, finite element method, nonlinear problems, and applications. Prereqs., CSCI 5606. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5646 (3) Numerical Linear Algebra

Offers direct and iterative solutions of linear systems. Also covers eigen value and eigenvector calculations, error analysis, and reduction by orthogonal transformation. A sound knowledge of basic linear algebra, experience with numerical computation, and programming experience is required. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-6676 (3) Numerical Methods for Unconstrained Optimization

Looks at modern computational methods for solution of unconstrained optimization problems, nonlinear leastsquares, and systems of nonlinear equations. Techniques for building algorithms to solve problems with special structure. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-6686 (3) Numerical Methods for Constrained Optimization

Covers computational methods for constrained optimization. Topics include basic theory, methods for quadratic programming, active set strategies for linear constraints, and penalty and successive quadratic programming methods for nonlinearly constrained problems. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-7176 (3) Topics in Numerical Computation

Topics selected by instructor. Possible topics are numerical linear algebra, solution of differential equations, nonlinear algebra and optimization, data fitting, linear and nonlinear programming, and solution of large problems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

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CSCI-3302 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

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CSCI-3308 (3) Software Engineering Methods and Tools

Focuses on software engineering methods and tools for application development, including design and system organization; using and creating reusable libraries; building, testing, and debugging; and performance evaluation. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Software Engineering](#)

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CSCI-3434 (3) Theory of Computation

Introduces the foundations of formal language theory, computability, and complexity. Shows relationship between automata and various classes of languages. Addresses the issue of which problems can be solved by computational means, and studies complexity of solutions. Prereq., CSCI 3104 and 3155. Prerequisites: Requires pre-requisite courses of CSCI 3104 and CSCI 3155 (minimum grade C-).

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Theory of Computation](#)

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CSCI-3656 (3) Numerical Computation

Covers development, computer implementation, and analysis of numerical methods for applied mathematical problems. Topics include floating point arithmetic, numerical solution of linear systems of equations, root finding, numerical interpolation, differentiation, and integration. Prereqs., two semesters of calculus, linear algebra, and either CSCI 1200 or 1300.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Numerical Computation](#)

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CSCI-3702 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problems, nature versus nurture, conceptual structure and metaphor, logic/problem solving, and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and PSYC 3005.

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CSCI-3753 (4) Operating Systems

Examines software comprising computing systems as it builds upon hardware to provide a programming environment. Looks at structure and function of editors, compilers/assemblers, linkers, etc. Basic operating systems concepts and systems programming in high-level languages. Prereqs., CSCI 2700 and 2400 or ECEN 3350. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4113 (3) Unix System Administration

Introduces UNIX (Linux) system administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts. Students build a Linux server from the ground up, using provided computing resources, and must maintain and secure the server themselves. Prereqs., CSCI 2270 or instructor consent. Recommended prereq., CSCI 3308. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4123 (3) Network Laboratory

Develops enterprise level design and configuration skills on local area networking via switching and routing, as well as the provisioning of remote data communications across diverse Wan technologies, using the latest available transport and security services. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5460. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4133 (3) Security Laboratory

Allows students to gain practical experience with network security in a simulated network environment. Topics to be covered include system hardening, firewalls, intrusion detection, vulnerability assessment, and investigation. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5540. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4143 (2) Principles of Telecommunications Policy

Learn the key issues and principles that guide the decisions of policymakers with respect to the regulatory treatment of voice, video, and data communications. Engage in critical debate, and develop instincts for anticipating the likely regulatory models that may be applied to new technologies. This introductory course covers technical, economic, legal, political, and institutional considerations. Coreq., CSCI 4123 or 4133. Same as TLEN 5210 Prerequisites: Requires pre-requisite or co-requisite course of CSCI 4123 or CSCI 4133 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4273 (3) Network Systems

Focuses on design and implementation of network programs and systems, including topics in network protocols, file transfer, client-server computing, remote procedure call, and other contemporary network system design and programming techniques. Prereqs., CSCI 3753 or equivalent, and familiarity with C and Unix. Same as CSCI 5273.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4593 (3) Computer Organization

Studies computer design at the gate level. Discusses instruction set architecture design, arithmetic and logic unit design, control logic, memory design and caches, simple pipelining, I/O, and peripheral devices. Briefly covers aspects of modern computer architecture, such as multicore processors and cache coherence for these. Prereq., ECEN 3350 and ECEN 2350. Same as ECEN 4593. Prerequisites: Requires pre-requisite courses of ECEN 2350 and ECEN 3350 (minimum grade C-). Restricted to Electrical Engineering (EEEN), Electrical and Computer Engineering (ECEN) Computer Science (CSEN), Engineering Physics (EPEN) or Applied Mathematics (APPM).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4753 (3) Computer Performance Modeling

Presents a broad range of system measurement and modeling techniques, emphasizing applications to computer systems. Topics include system measurement, work load characterization, and analysis of data; design of experiments; simulation; and queuing theory and queuing network models. Prereq., CSCI 3753 or equivalent, and second-semester calculus. Recommended prereq., a course in statistics. Same as CSCI 5753 and ECEN 4753/5753.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5273 (3) Network Systems

Same as CSCI 4273. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

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| College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware |
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CSCI-5473 (3) Applied Operating Systems

Examines design and implementation of contemporary operating systems. Significant laboratory component applies practice with OS use, analysis, and internal design. Topics include OS organization and structure, process and thread management, memory management, file management, device management, network and distributed systems, and modern runtime systems. Prereq., two years programming and instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

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| College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware |
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CSCI-5573 (3) Advanced Operating Systems

Intended to create a foundation for operating systems research or advanced professional practice. Examines the design and implementation of a number of research and commercial operating systems and their components, system organization and structure, threads, communication and synchronization, virtual memory, distribution, file systems, security and authentication, availability, and Internet services. Prereqs., CSCI 3753, 4593, equivalent undergraduate coursework in operating systems and computer architecture, or instructor consent. Same as ECEN 5573. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

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| College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware |
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CSCI-5593 (3) Advanced Computer Architecture

Provides a broad-scope treatment of important concepts in the design and implementation of high-performance computer systems. Discusses important issues in the pipelining of a machine and the design of cache memory systems. Also studies current and historically important computer architectures. Prereq., CSCI 4593 or instructor consent. Same as ECEN 5593. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

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| College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware |
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CSCI-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereqs., CSCI 5573 or a course in computer networks. Same as ECEN 5673. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

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CSCI-5753 (3) Computer Performance Modeling

Same as CSCI 4753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

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| College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware |
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CSCI-7123 (3) Topics in Operating Systems

Topics selected by instructor. Possible topics are system design, measurement and evaluation, simulation, mathematical modeling, and parallelism. Prereq., CSCI 5573. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-7143 (3) Topics in Computer Systems

Topics selected by instructor. Possible topics are online systems, multiprocessing, microprogramming, architecture, data communications, and computing networks. May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

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CSCI-3753 (4) Operating Systems

Examines software comprising computing systems as it builds upon hardware to provide a programming environment. Looks at structure and function of editors, compilers/assemblers, linkers, etc. Basic operating systems concepts and systems programming in high-level languages. Prereqs., CSCI 2700 and 2400 or ECEN 3350. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

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CSCI-4000 (3) Entrepreneurship in Computing

Examines the development of new venture creation from the entrepreneur's perspective. Provides an understanding of the entire process including opportunity identification, feasibility study, fundraising, organization, team creation, and exit strategies through case studies, oral and written presentations, and outside speakers. Taught by an experienced entrepreneur. Prereq., CSCI 2270. Restricted to juniors/seniors.

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CSCI-4113 (3) Unix System Administration

Introduces UNIX (Linux) system administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts. Students build a Linux server from the ground up, using provided computing resources, and must maintain and secure the server themselves. Prereqs., CSCI 2270 or instructor consent. Recommended prereq., CSCI 3308. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

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CSCI-4123 (3) Network Laboratory

Develops enterprise level design and configuration skills on local area networking via switching and routing, as well as the provisioning of remote data communications across diverse Wan technologies, using the latest available transport and security services. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5460. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

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CSCI-4133 (3) Security Laboratory

Allows students to gain practical experience with network security in a simulated network environment. Topics to be covered include system hardening, firewalls, intrusion detection, vulnerability assessment, and investigation. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5540. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

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CSCI-4143 (2) Principles of Telecommunications Policy

Learn the key issues and principles that guide the decisions of policymakers with respect to the regulatory treatment of voice, video, and data communications. Engage in critical debate, and develop instincts for anticipating the likely regulatory models that may be applied to new technologies. This introductory course covers technical, economic, legal, political, and institutional considerations. Coreq., CSCI 4123 or 4133. Same as TLEN 5210 Prerequisites: Requires pre-requisite or co-requisite course of CSCI 4123 or CSCI 4133 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4202 (3) Artificial Intelligence 2

Second course in artificial intelligence. Topics may vary, but typically cover neural networks, natural language processing, and artificial life. Prereq., CSCI 3202 or instructor consent.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-4229 (3) Computer Graphics

Studies design, analysis, and implementation of computer graphics techniques. Topics include interactive techniques, 2D and 3D viewing, clipping, segmentation, translation, rotation, and projection. Also involves removal of hidden edges, shading, and color. Prereqs., knowledge of basic linear algebra and CSCI 2270. Same as CSCI 5229.

[College of Engineering & Applied Science](#) [Computer Science](#) [Graphics](#)

CSCI-4239 (3) Advanced Computer Graphics

Studies design, analysis and implementation of advanced computer graphics techniques. Topics include shaders, using the GPU for high performance computing, graphics programming on embedded devices such as mobile phones; advanced graphics techniques such as ray tracing. Prereq., CSCI 4229 or instructor consent required. Same as CSCI 5239.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-4273 (3) Network Systems

Focuses on design and implementation of network programs and systems, including topics in network protocols, file transfer, client-server computing, remote procedure call, and other contemporary network system design and programming techniques. Prereqs., CSCI 3753 or equivalent, and familiarity with C and Unix. Same as CSCI 5273.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 5302.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4308 (4) Software Engineering Project 1

Advanced practicum in which students design, implement, document and test software systems for use in industry, non-profits, government and research institutions. Also offers extensive experience in oral and written communication throughout the software lifecycle. Students must take CSCI 4308 and 4318 contiguously, as the project spans the entire academic year. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, Computer Science electives, and WRTG 3030. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Computer Science (CSCI) majors or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-4312 (3) Health Informatics

Teaches students essential skills necessary for developing usable assistive and performance support systems, which include consideration of the academic and professional interdisciplinary issues that govern the work. An overview of ongoing and emerging topics in medical informatics will be presented. Prereq., CSCI 2270. Recommended prereq., CSCI 3002. Same as CSCI 5312.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4314 (3) Algorithms for Molecular Biology

Surveys combinatorial algorithms used to understand DNA, RNA, and proteins. Introduces students to methods used to process genomic data. Topics covered include a review of algorithms and molecular biology, sequence analysis, RNA and protein structure analysis, and comparative genomics. Students will get hands-on experience processing recent genomic data. Prereqs., CSCI

2270 and CSCI 3104, or CHEM 4711, or MCDB3500 or lphy 4200. Same as CSCI 5314 and MCDB 4314.

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-4317 (3) Genome Databases: Mining and Management

Develops essential skills for performing genomic analyses, with focus on developing practical research tools. Introduces human genome and microbiome projects, Python/SQL scripting, accessing and understanding genomic data, sequence alignment and search, evolutionary models, expression data, biological networks, and macromolecular structure. Prereqs., MCDB 3500, CSCI 3104, or CHEM 4711; coreq., CSCI 2270. Same as CSCI 5317. Credit not granted for this course and CHEM 4621 or MCDB 4621.

College of Engineering & Applied Science Computer Science Database Systems

CSCI-4318 (4) Software Engineering Project 2

Second semester of an advanced practicum in computer science. Students must take CSCI 4308 and 4318 contiguously as the project spans the entire academic year. Prereq., CSCI 4308.

College of Engineering & Applied Science Computer Science Software Engineering

CSCI-4342 (3) Groupware and Workflow Systems

Supports students in developing professional skills and knowledge concerning the use of computer technologies to support collaborative activities. Also covers the impact of digital collaboration technologies on users, groups, organizations and society. Students will gain practical experience with Business Process Management and the use of Workflow Management Systems. Same as CSCI 5342.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-4412 (3) Design, Creativity, and New Media

Explores the design of new media and technologies to support design and creativity. Analyzes design and creativity as human activities of fundamental importance in the networked information culture and economy. Provides theoretical and practical analysis of new media. Instructor consent required. Recommended prereq., CSCI 3002. Instructor consent required. Same as CSCI 5412.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-4446 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, CSCI 1200, 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 5446 and ECEN 4423. Prerequisites: Requires pre-requisite course of CSCI 1200 or 1300 and PHYS 1110 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-4448 (3) Object-Oriented Analysis and Design

An applied analysis and design class addressing the use of object-oriented techniques. Topics include domain modeling, use cases, architectural design, and modeling notations. Students apply the techniques in analysis and design projects. Prereq., CSCI 3155 or expertise in one or more object-oriented programming languages, such as C++ or Java. Same as CSCI 5448.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-4502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4555 (3) Compiler Construction

Introduces the basic techniques used in translating programming languages: scanning, parsing, definition table management, operator identification and coercion, code selection and register allocation, error recovery. Students build a complete compiler for a simple language. Prereqs., CSCI 2400 or ECEN 3350 and CSCI 2824. Same as ECEN 4553 and CSCI 5525.

College of Engineering & Applied Science | Computer Science | Programming Languages

CSCI-4576 (4) High-Performance Scientific Computing

Introduces computing systems, software, and methods used to solve large-scale problems in science and engineering. Students use high-performance workstations and a supercomputer. First course in a two-semester sequence. Recommended prereq., CSCI 3656. Same as CSCI 5576.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-4586 (4) High-Performance Scientific Computing 2

Introduces computing systems, software, and methods to solve large-scale problems in science and engineering. Students use high-performance workstations and a supercomputer. Second course in a two-semester sequence. Prereq., CSCI 4576.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-4593 (3) Computer Organization

Studies computer design at the gate level. Discusses instruction set architecture design, arithmetic and logic unit design, control logic, memory design and caches, simple pipelining, I/O, and peripheral devices. Briefly covers aspects of modern computer architecture, such as multicore processors and cache coherence for these. Prereq., ECEN 3350 and ECEN 2350. Same as ECEN 4593. Prerequisites: Requires pre-requisite courses of ECEN 2350 and ECEN 3350 (minimum grade C-). Restricted to Electrical Engineering (EEEN), Electrical and Computer Engineering (ECEN) Computer Science (CSEN), Engineering Physics (EPEN) or Applied Mathematics (APPM).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4753 (3) Computer Performance Modeling

Presents a broad range of system measurement and modeling techniques, emphasizing applications to computer systems. Topics include system measurement, work load characterization, and analysis of data; design of experiments; simulation; and queuing theory and queuing network models. Prereq., CSCI 3753 or equivalent, and second-semester calculus. Recommended prereq., a course in statistics. Same as CSCI 5753 and ECEN 4753/5753.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-4809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-4810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the senior undergraduate level. Content varies from semester to semester. May be repeated up to 9 total credit hours.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-4839 (3) User-Centered Design

Develops the skills and practices necessary to apply user-centered approaches to software requirements analysis, and the design and evaluation of computer applications. Same as CSCI 5839.

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CSCI-4900 (1-3) Upper Division, Undergraduate Level Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on a small research problem or tutor lower-division computer science students. Prereq., CSCI 1200 or 1300.

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[Computer Science](#)
[General Computer Science](#)

CSCI-4950 (2-4) Senior Thesis

Provides an opportunity for senior computer science majors to conduct exploratory research in computer science. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, and Computer Science electives, and WRTG 3030. Restricted to seniors. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#)
[Computer Science](#)
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CSCI-5229 (3) Computer Graphics

Same as CSCI 4229. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
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[Graphics](#)

CSCI-5239 (3) Advanced Computer Graphics

Prereq., CSCI 5229. Restricted to graduate students only. Same as CSCI 4239. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-5273 (3) Network Systems

Same as CSCI 4273. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 4302.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5312 (3) Health Informatics

Same as CSCI 4312. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5314 (3) Algorithms for Molecular Biology

Same as CSCI 4314 and MCDB 5314. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5317 (3) Genome Databases: Mining and Management

Same as CSCI 4317. Credit not granted for this course and CHEM 5621 or MCDB 5621. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-5342 (3) Groupware and Workflow Systems

Same as CSCI 4342. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5412 (3) Design, Creativity, and New Media

Same as CSCI 4412. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5417 (3) Information Retrieval Systems

Addresses practical issues in the design, implementation and analysis of modern information retrieval systems. The major focus is on Web-based applications including ad hoc retrieval, classification, and clustering. Introduces the use of open source retrieval systems, standard evaluation metrics and gold-standard evaluation collections. Formerly CSCI 7000. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-5444 (3) Introduction to Theory of Computation

Reviews regular expressions and finite automata. Studies Turing machines and equivalent models of computation, the Chomsky hierarchy, context-free grammars, push-down automata, and computability. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5446 (3) Chaotic Dynamics

Same as CSCI 4446 and ECEN 5423. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5448 (3) Object-Oriented Analysis and Design

Same as CSCI 4448. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5454 (3) Design and Analysis of Algorithms

Techniques for algorithm design, analysis of correctness and efficiency; divide and conquer, dynamic programming, etc. Advanced data structures, algorithms in graph theory, geometry, Vlsi, linear algebra, etc. Lower bounds, Np-completeness, intractability. Prereqs., CSCI 2270 or equivalent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5473 (3) Applied Operating Systems

Examines design and implementation of contemporary operating systems. Significant laboratory component applies practice with OS use, analysis, and internal design. Topics include OS organization and structure, process and thread management, memory management, file management, device management, network and distributed systems, and modern runtime systems. Prereq., two years programming and instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5525 (3) Compiler Construction

Offers practical experience using state-of-the-art CAD tools on high-performance workstations. Provides skills needed to rapidly create little languages for specific problem domains and familiarizes students with automated software development. Prereqs., CSCI 2824 or ECEN 3703 and CSCI 2400 or ECEN 2120. Same as ECEN 5523 and CSCI 4555. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Programming Languages

CSCI-5535 (3) Fundamental Concepts of Programming Languages

Considers concepts common to a variety of programming languages--how they are described (both formally and informally) and how they are implemented. Provides a firm basis for comprehending new languages and gives insight into the relationship between languages and machines. Prereq., CSCI 3155, or instructor consent. Same as ECEN 5533. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Programming Languages

CSCI-5548 (3) Software Engineering of Standalone Programs

Applies engineering principles to phases of software product development, project planning, requirements definition, design, implementation, validation, and maintenance. Emphasizes practical methods for communicating and verifying definitions and designs--prototyping, inspections, and modeling. Includes relation to RTS and object-oriented programming. Prereqs., CSCI 1300, CSCI 2270, or instructor consent. Same as ECEN 5543. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5551 (3) Parallel Processing

Examines a range of topics involved in using parallel operations to improve computational performance. Discusses parallel architectures, parallel algorithms and parallel programming languages. Architectures covered include vector computers, multiprocessors, network computers, and data flow machines. Prereq., background in computer organization, introduction to programming languages, elementary numerical analysis, ECEN 4593 and CSCI 3656, or instructor consent. Same as ECEN 5553. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Parallel Processing

CSCI-5573 (3) Advanced Operating Systems

Intended to create a foundation for operating systems research or advanced professional practice. Examines the design and implementation of a number of research and commercial operating systems and their components, system organization and structure, threads, communication and synchronization, virtual memory, distribution, file systems, security and authentication, availability, and Internet services. Prereqs., CSCI 3753, 4593, equivalent undergraduate coursework in operating systems and computer architecture, or instructor consent. Same as ECEN 5573.

Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5576 (4) High-Performance Scientific Computing

Same as CSCI 4576. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5582 (3) Artificial Intelligence

Surveys artificial intelligence methods, theories, and applications. Studies the relationship between artificial intelligence and psychology, linguistics, and philosophy. Introduces artificial intelligence programming. Prereq., CSCI 3155 or equivalent. Same as ECEN 5583. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

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CSCI-5593 (3) Advanced Computer Architecture

Provides a broad-scope treatment of important concepts in the design and implementation of high-performance computer systems. Discusses important issues in the pipelining of a machine and the design of cache memory systems. Also studies current and historically important computer architectures. Prereq., CSCI 4593 or instructor consent. Same as ECEN 5593. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-5606 (3) Principles of Numerical Computation

Highlights computer arithmetic, solution of linear systems, least-squares approximations, nonlinear algebraic equations, interpolation, and quadrature. Prereq., CSCI 3656 and three semesters of calculus, or equivalent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-5608 (3) Software Project Management

Presents topics and techniques critical to the management of software product development, including estimating, planning, quality, tracking, reporting, team organization, people management, and legal issues. Gives special attention to problems unique to software projects. Prereq., ECEN 4583, CSCI 5548 and 4318, or equivalent industrial experience. Same as ECEN 5603 and EMEN 5031. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-5622 (3) Machine Learning

Trains students to build computer systems that learn from experience. Includes the three main subfields: supervised learning, reinforcement learning and unsupervised learning. Emphasizes practical and theoretical understanding of the most widely used algorithms (neural networks, decision trees, support vector machines, Q-learning). Covers connections to data mining and statistical modeling. A strong foundation in probability, statistics, multivariate calculus, and linear algebra is highly recommended. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5636 (3) Numerical Solution of Partial Differential Equations

Focuses on finite difference solution for partial differential equations, methods of SoR, ADI, conjugate gradients, finite element method, nonlinear problems, and applications. Prereqs., CSCI 5606. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5646 (3) Numerical Linear Algebra

Offers direct and iterative solutions of linear systems. Also covers eigen value and eigenvector calculations, error analysis, and reduction by orthogonal transformation. A sound knowledge of basic linear algebra, experience with numerical computation, and programming experience is required. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5654 (3) Linear Programming

Presents algorithms, simplex, and modifications. Examines theory---duality and complementary slackness. Involves network flow algorithms. Introduces integer programming. Prereq., linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereqs., CSCI 5573 or a course in computer networks. Same as ECEN 5673. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5714 (3) Formal Languages

Explores context-free languages: pumping lemma and variants, closure properties, and decision properties. Involves parsing algorithms, including general and special languages, e.g., LR. Additional topics chosen by instructor. Prereq., CSCI 5444 or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5722 (3) Computer Vision

Explores algorithms that can extract information about the world from images or sequences of images. Topics covered include: imaging models and camera calibration, early vision (filters, edges, texture, stereo, optical flow), mid-level vision (segmentation, tracking), vision-based control, and object recognition. Recommended prereq., probability, multivariate calculus, and linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5753 (3) Computer Performance Modeling

Same as CSCI 4753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5809 (3) Computer Animation

Same as CSCI 4809 and ATLS 4809/5809. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-5817 (3) Database Systems

Provides an advanced treatment of basic database concepts. Prereq., CSCI 2270. Recommended prereq., CSCI 3287 and 3753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-5828 (3) Foundations of Software Engineering

Explores techniques, languages, and tools for development and maintenance of software systems. Topics include specification languages, configuration modeling, testing techniques, process modeling, program annotations, and program proofs. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5832 (3) Natural Language Processing

Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs. Prereq., graduate standing or instructor consent. Same as LING 5832. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5839 (3) User-Centered Design

Restricted to graduate students or instructor consent. Same as CSCI 4839. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-5900 (1-6) Master's Level Independent Study

Provides opportunities for independent study at the master's level. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-5919 (3) Human-Computer Interaction: Survey and Synthesis

Examines interdisciplinary field of human-computer interaction through a comprehensive content and historical survey. Considers new trajectories of inquiry and how the field merges with others. "Social computing" is emphasized as a central topic. Students across disciplines will find the course foundational for understanding human-centered technology matters, including computer scientists; social scientists; and business and media arts students. Recommended prereq., CSCI 4839 or 5839. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-5929 (3) Human-Computer Interaction: Survey and Synthesis 2

Studies recent advances in human-computer interaction through critical analysis of influential papers and self-guided research. Examines new paradigms in input, output, and visualization for technology design and interaction. Considers innovative methods to assess various population design and technological needs. Studies in computer-related fields, social science, business, media arts, and communications benefit learning about human-centered computing research. Recommended prereq., CSCI 5919.

College of Engineering & Applied Science | Computer Science | Graphics

CSCI-6000 (1) Introduction to the Computer Science PhD Program

Instructs new Ph.D students in Computer Science how to obtain a Ph.D and how to become an effective member of the computer science research community. Makes students aware of formal requirements, educational objectives, and research themes. Provides evaluative criteria and guidelines for all objectives to be achieved. Restricted to new Ph.D students in Computer Science. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6268 (3) Foundations of Computer and Network Security

Studies methods to protect information, and the ability to process and move information, from theft, misuse, tampering, destruction, and unauthorized access. Introduces foundational topics of computer and network security, including security models, cryptography, and authentication protocols. Prereq., CSCI 5273. Same as TLEN 5550. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Graphics

College of Engineering & Applied Science Computer Science Software Engineering

CSCI-6302 (3) Speech Recognition and Synthesis

Introduction to automatic speech recognition and understanding, conversational agents, dialogue systems, and speech synthesis/text-to-speech. Topics include the noisy channel model, Hidden Markov Models, A* and Viterbi decoding, language modeling (N-grams, entropy), concatenative synthesis, text normalization, dialogue and conversation modeling. Prereqs., CSCI 5582 or 5832, or LING 5200, and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-6402 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. Prereqs., graduate standing, or at least one course at the 3000-level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science will be presumed. Same as EDUC 6504, LING 6200, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-6454 (3) Advanced Algorithms

Topics include matching and network flows, matroids, computational geometry, parallel computation (PRAM, hypercube, mesh). Also includes Vlsi, database theory, distributed computation, cryptography, robotics, scheduling, probabilistic algorithms, approximation algorithms, average case, and amortized analysis, time permitting. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-6622 (3) Advanced Machine Learning

Covers advanced theoretical and practical topics in machine learning and latest developments in the field. Students conduct original research, either applied or theoretical, and present their results. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

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CSCI-6676 (3) Numerical Methods for Unconstrained Optimization

Looks at modern computational methods for solution of unconstrained optimization problems, nonlinear leastsquares, and systems of nonlinear equations. Techniques for building algorithms to solve problems with special structure. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-6686 (3) Numerical Methods for Constrained Optimization

Covers computational methods for constrained optimization. Topics include basic theory, methods for quadratic programming, active set strategies for linear constraints, and penalty and successive quadratic programming methods for nonlinearly constrained problems. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-6800 (1-6) Master of Engineering Project

Students seeking the master of engineering degree must complete a creative investigation project, including a written report, supervised by a member of the graduate faculty. Prereq., completion of 21 hours towards the ME degree. Prerequisites: Restricted to graduate student Computer Sciences students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-6810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6940 (1) Master's Degree Candidacy

For students who need to be registered for the purpose of taking the master's comprehensive exam and who are not otherwise registered. Credit does not count toward degree requirements. Graded on a pass/fail basis. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-7000 (1-4) Current Topics in Computer Science

Covers research topics of current interest in computer science that do not fall into a standard subarea. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-7111 (3) Topics in Parallel Processing

Content varies, but subjects include parallel machine architecture, parallel algorithms, languages for parallel computation, and applications. Takes subject matter from current research. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Parallel Processing

CSCI-7123 (3) Topics in Operating Systems

Topics selected by instructor. Possible topics are system design, measurement and evaluation, simulation, mathematical modeling, and parallelism. Prereq., CSCI 5573. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-7135 (3) Topics in Programming Languages

Topics selected by instructor. Possible topics are syntax, semantics, metacompilers, compiler design, and translator writing systems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Programming Languages

CSCI-7143 (3) Topics in Computer Systems

Topics selected by instructor. Possible topics are online systems, multiprocessing, microprogramming, architecture, data communications, and computing networks. May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-7154 (3) Topics in Theory of Computation

Selected topics of current interest in theory of computation. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-7176 (3) Topics in Numerical Computation

Topics selected by instructor. Possible topics are numerical linear algebra, solution of differential equations, nonlinear algebra and optimization, data fitting, linear and nonlinear programming, and solution of large problems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-7212 (3) Topics in Symbolic Artificial Intelligence

Topics vary from year to year. Possible topics include search; knowledge representation and natural language understanding; deduction, planning, problem solving, and automatic programming; instruction and cognitive models; vision and speech; and learning, induction, and concept formation. Prereq., CSCI 5582 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7222 (3) Topics in Nonsymbolic Artificial Intelligence

Topics vary from year to year. Possible topics include human and machine vision, signal and speech processing, artificial life, mathematical foundations of connectionism, and computational learning theory. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7412 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for graduate students pursuing a joint Ph.D in an approved core discipline and cognitive science. Projects integrate at least two

areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students should obtain commitments from two mentors for their project. Prereqs., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereqs., CSCI7762 or EDUC 6505 or LING 7762 or PSYC 7765. Same as LING 7415, PSYC 7415, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7422 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Ph.D in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, LING 7425, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7717 (3) Topics in Database Systems

Studies topics such as distributed databases, database interfaces, data models, database theory, and performance measurement in depth. Prereq., CSCI 5817 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-7762 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint Ph.D in cognitive science. Prereq., graduate standing. Same as EDUC 6505, LING 7762, and PSYC 7765. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7772 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, PSYC 7775, EDUC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7782 (3) Topics in Cognitive Science

Addresses a different set of one to three topics each year. For each topic, one or two faculty members of the Institute of Cognitive Science present background material and current research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7818 (3) Topics in Software Engineering

Studies selected topics of current interest in software engineering. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-7900 (1-6) Doctoral Level Independent Study

For doctoral students.

College of Engineering & Applied Science | Computer Science | General Computer Science

CSCI-8990 (1-10) Doctoral Dissertation

Investigates some specialized field of computer science. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science



CSCI-4810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

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CSCI-4830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the senior undergraduate level. Content varies from semester to semester. May be repeated up to 9 total credit hours.

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CSCI-4900 (1-3) Upper Division, Undergraduate Level Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on a small research problem or tutor lower-division computer science students. Prereq., CSCI 1200 or 1300.

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CSCI-4950 (2-4) Senior Thesis

Provides an opportunity for senior computer science majors to conduct exploratory research in computer science. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, and Computer Science electives, and WRTG 3030. Restricted to seniors. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

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CSCI-5900 (1-6) Master's Level Independent Study

Provides opportunities for independent study at the master's level. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

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CSCI-6000 (1) Introduction to the Computer Science PhD Program

Instructs new Ph.D students in Computer Science how to obtain a Ph.D and how to become an effective member of the computer science research community. Makes students aware of formal requirements, educational objectives, and research themes. Provides evaluative criteria and guidelines for all objectives to be achieved. Restricted to new Ph.D students in Computer Science. Prerequisites: Restricted to Graduate Students only.

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CSCI-6800 (1-6) Master of Engineering Project

Students seeking the master of engineering degree must complete a creative investigation project, including a written report, supervised by a member of the graduate faculty. Prereq., completion of 21 hours towards the ME degree. Prerequisites: Restricted to graduate student Computer Sciences students only.

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CSCI-6810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

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CSCI-6940 (1) Master's Degree Candidacy

For students who need to be registered for the purpose of taking the master's comprehensive exam and who are not otherwise registered. Credit does not count toward degree requirements. Graded on a pass/fail basis. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

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CSCI-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

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CSCI-7000 (1-4) Current Topics in Computer Science

Covers research topics of current interest in computer science that do not fall into a standard subarea. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

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CSCI-7900 (1-6) Doctoral Level Independent Study

For doctoral students.

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CSCI-8990 (1-10) Doctoral Dissertation

Investigates some specialized field of computer science. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

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EVEN-2840 (1-3) Independent Study: General Topics

General topics relating to environmental engineering. One-on-one assistance with an instructor.

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EVEN-4100 (3) Environmental Sampling and Analysis

Introduces students to hands-on environmental sampling and analysis techniques for characterization of surface water, subsurface water, soils and sediments, and air. Laboratories include stream sampling, drilling, monitoring well installation, water level, slug tests, air sampling. Prereqs., CVEN 4404 and 4414, fluid mechanics, or instructor consent.

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EVEN-4830 (3) Special Topics

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EVEN-4840 (1-3) Independent Study: General Topics

General topics relating to environmental engineering. One-on-one assistance with an instructor. May be repeated up to 6 total credit hours.

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EVEN-4980 (3) Senior Thesis 1

Provides faculty-supervised independent research in environmental engineering for students planning to complete a senior thesis. To be taken prior to EVEN 4990, during the final year before graduation. Instructor consent required. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Engineering (EVEN) majors only.

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EVEN-4990 (3) Senior Thesis 2

Continuation of EVEN 4980. Consists of final phase of faculty-supervised research, the preparation of a written thesis, and an oral defense of the research to a committee. Prereq., EVEN 4980.

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Courses

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MCEN-2023 (3) Statics and Structures

Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., APPM 1360. Prerequisites: Requires prerequisite course of APPM 1360 or MATH 2300. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or Civil & Envrn Engr Concurrent Degree majors or Mechanical Engr Concurrent Degree majors.

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MCEN-2043 (3) Dynamics

Covers dynamic behavior of particle systems and rigid bodies; 2-D and 3-D kinematics and kinetics; impulse, momentum, potential, and kinetic energy; and work, collision, and vibration. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., MCEN 2023. Formerly MCEN 3043. Prerequisites: Requires prerequisite courses of MCEN 2023 (or CVEN 2121 or GEEN 3851). Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

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MCEN-2063 (3) Mechanics of Solids

Covers shear force and bending moment, torsion, stresses in beams, deflection of beams, matrix analysis of frame structures, analysis of stress and strain in 2-D and 3-D (field equations, transformations), energy methods, stress concentrations, and columns. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Credit not granted for this course and CVEN 3161. Prerequisites: Requires prerequisite courses of MCEN 2023 or CVEN 2121 or GEEN 3851. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

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MCEN-4043 (3) System Dynamics

Covers linear dynamic systems and mathematical tools for understanding them, input-output relationships, modeling templates, complex variables, Laplace transform, time-harmonic forcing and response, Fourier series and discrete Fourier transform, and coupled systems. Prereqs., ECEN 3010 and MCEN 2043 or 3043. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course. Prerequisites: Restricted to College of Engineering majors only.

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MCEN-4173 (3) Finite Element Analysis

Introductory course covering the theory behind and applications of the finite element method as a general and powerful tool to model a variety of phenomena in mechanical engineering. Applications include structural mechanics, mechanics of elastic continua, and heat conduction. Prereq., MCEN 2023 and 2063, or equivalents. Same as MCEN 5173. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-4183 (3) Mechanics of Composite Materials

Introduces various kinds of composite materials, composite fabrication techniques, the physical and mechanical behavior of composites, and analytical and experimental methodologies. Prereqs., MCEN 2024 and 2063, or equivalents. Same as MCEN 5183.

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MCEN-5023 (3) Solid Mechanics 1

Introduces stress, strain, and motion of a continuous system. Discusses material derivative; fundamental laws of mass, momentum, energy, and entropy; constitutive equations and applications to elastic and plastic materials. Prereq., MCEN 2063 or equivalent; coreq., MCEN 5020 or equivalent. Similar to ASEN 5012. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-5123 (3) Theory of Vibration

Same as MCEN 4123. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5173 (3) Finite Element Analysis

Same as MCEN 4173. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5183 (3) Mechanics of Composite Materials

Same as MCEN 4183. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-6163 (3) Elastic Waves

Effect of transient localized sources or dislocations in an elastic medium is studied. . Modeling and application of waves in rods, beams, and plates is emphasized. In addition, ultrasonic, nondestructive evaluation and seismological problems are discussed. Prereq., MCEN 5023 or equivalent. Recommended MCEN 5040 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-7123 (3) Dynamics of Continuous Media

Reflects upon derivation of wave equations from the basic equations of dynamic elasticity. Topics include propagation of elastic waves in infinite and partially bounded media, Rayleigh waves and Love waves, Pochhammer solution for a rod, and waves in plates and in layered and anisotropic media. Prereq., MCEN 5020, 5040, and 5043, or equivalents. Same as PHYS 6680 and GEOL 6680. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids



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MCEN-2024 (3) Materials Science

Structure, properties, and processing of metallic, polymeric, ceramic, and composite materials. Perfect and imperfect solids; phase equilibria; transformation kinetics; mechanical behavior; material degradation. Approach incorporates both materials science and materials engineering components. Prereqs., CHEN 1211, CHEM 1221 and PHYS 1110. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors or Civil & Environmental Engineering Concurrent Degree or Mechanical Engineering Concurrent Degree majors

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MCEN-4124 (3) Mechanical Behavior of Materials

Addresses the relationship between material structure and the fundamental processes of deformation, yield, and fracture. Examines elements of elasticity theory, introduction to plasticity, and formulation of failure criteria. Studies basic deformation processes in terms of dislocation mechanics and macroscopic mechanical behavior. Takes into consideration the influence of compositional and processing strengthening mechanisms on mechanical properties. Prereqs., MCEN 2024 and 2063.

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MCEN-4133 (3) Biomechanics of Solids

Considers the mechanical behavior of biological materials and emphasizes the relationship between structural characteristics and macroscopic behavior. Focuses first on the mechanical behavior of microscopic protein and polysaccharide elements and then on larger scale soft and hard tissue structures. Prereqs., MCEN 2024, 2063, and 3021 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-4174 (3) Failure of Engineering Materials

Examines the failure of materials used in engineering design through a series of real world case studies. Example failure modes considered include overload, fatigue, creep, and corrosion. Example case studies include failure of aircraft, mountaineering ropes, weight training frames, and toilets. Prereqs., MCEN 2024 and 2063. Same as MCEN 5174.

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MCEN-5024 (3) Materials Chemistry and Structures

Provides graduate level students with a comprehensive overview of the chemistry and structure of material systems, with a focus on chemical bonding., the resulting material structures and their properties. This course is intended to become one of the four core courses offered in the new Materials Science curriculum. Course topics include: bonding in solids, crystalline and amorphous states, basic group theory, diffraction, metals and alloys, ceramics, and an intro to mat. characterization. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-5034 (3) Thermodynamics of Materials

Provides a unified presentation of fundamental concepts applicable to the thermodynamics of engineering materials. Develops quantitative tools for understanding the physical principles that govern phase equilibrium and transformation. Generates binary and ternary phase diagrams and determine the resulting materials structures and corresponding physical and mechanical properties. Recommended prereqs., MCEN 2024 and 3012.

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MCEN-5044 (3) Mechanical Behavior of Materials

This introductory-level graduate course incorporates relevant aspects of materials science, solid mechanics, thermodynamics and mathematics, and applies them to achieve a fundamental understanding of the mechanical behavior of crystalline and non-crystalline engineering materials. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students. Prereq., MCEN 2024 and 2063 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5045 (3) Design for Manufacturability

Topics include general design guidelines for manufacturability; aspects of manufacturing processes that affect design decisions; design rules to maximize manufacturability; statistical considerations; value engineering and design for assembly (manual, robotic, and automatic). Presents case studies of successful products exhibiting Dfm. Prereq., MCEN 4026 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-5164 (3) Fracture

Focuses on basic mechanisms controlling fracture in brittle materials, reduction of capacity for plastic deformation in engineering materials used at high-strength levels, and selection of materials in terms of toughness as well as strength. Prereq., MCEN 4124 and 5044, or equivalent.

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MCEN-5174 (3) Failure of Engineering Materials

Same as MCEN 4174. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-6184 (3) Structure and Properties of Polymers

Emphasizes the relationship between molecular structure and macroscopic properties. Structural aspects include chain conformation, configuration, and the crystalline and amorphous states.

Discusses physical and mechanical properties with a focus on solution and phase behavior, transitions of bulk polymers, and rubber and viscoelastic behavior. Prereq., graduate standing and MCEN 5024 and 5044, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students.

Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-3012 (3) Thermodynamics

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as GEEN 3852. Prerequisites: Requires prerequisite course of APPM 2350 or MATH 2400. Restricted to students with 57-180 credits (Junior/Senior) MCEN or EVEN majors or concurrent degree majors in CVEN/EVEN or MCEN.

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MCEN-3022 (3) Heat Transfer

Studies fundamentals of heat transfer by conduction, convection, and radiation. Provides applications to heat exchangers, solar panels, and boiling and mass transfer. Also covers numerical methods for solving heat transfer problems and design of engineering equipment involving heat transfer processes. Prerequisites: Requires prereq courses of MCEN 3012 (or GEEN 3852, or CHEN 3320, or ASEN 2002, or AREN 2110) & MCEN 3021 (or GEEN 3853, or CHEN 3200, or CVEN 3313) & MCEN 3030. Restricted to students w/ 57-180 credits (Jr or Sr) MCEN or EVEN majors.

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MCEN-3032 (3) Thermodynamics 2

Offers advanced topics and applications, including thermodynamics of state, entropy and probability, thermodynamic cycles, and reacting and nonreacting mixtures. Provides application to engines and power generation by conventional and alternative energy technologies. Most assignments are design oriented. Prereqs., MCEN 3012 and 3021. Prerequisites: Requires prerequisite course of MCEN 3021 (or CHEN 3200 or CVEN 3313 or GEEN 3853) and MCEN 3012 (or AREN 2110 or GEEN 3852). Restricted to students with 57-180 credits (Junior/Senior) Mechanical Engineering or Environmental Engineering majors only.

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MCEN-4152 (3) Introduction to Combustion

Description of the mechanisms by which fuel and oxidizers are converted into combustion products. Application to practical combustion devices such as Otto, Diesel, gas turbine, and power plant combustion systems. Consideration of combustion-generated air pollution, fire safety, and combustion efficiency. Prereq., MCEN 3012. Recommended prereqs., MCEN 3021 and 3022. Same as MCEN 5152.

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MCEN-4162 (3) Energy Conversion

Examines common energy-conversion methods and devices. Topics include power-cycle thermodynamics, turbocompressor and expander processes, combustion systems, and applications and limitations of direct energy-conversion systems. Prereq., MCEN 3012.

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MCEN-5022 (3) Classical Thermodynamics

First and second laws of thermodynamics. Entropy and availability. Cycle analysis. Thermodynamic properties of pure substances and mixtures. Property relations. Chemical reactions and chemical availability. Energy systems analysis. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5042 (3) Heat Transfer

Studies development of equations governing transport of heat by conduction, convection, and radiation, and their solution. Includes analytical and numerical solution of initial and boundary value problems representative of heat conduction in solids. Describes heat transfer in free and forced convection, including laminar and turbulent flow. Also involves radiation properties of solids, liquids, and gases and transport of heat by radiation. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5122 (3) Statistical Thermodynamics

Axiomatic formulation of macroscopic thermodynamics. Quantum mechanical description of atomic and molecular structure. Statistical mechanics description of thermodynamic properties of gases, liquids and solids. Elementary kinetic theory of gases and evaluation of transport properties. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prereq., undergraduate thermodynamics. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5142 (3) Computational Fluid Dynamics, Heat Transfer, and Combustion

Finite difference, finite volume, finite element, and spectral methods, consistency, stability and convergence of numerical schemes, governing equations for reacting flows, convection, diffusion, convection-diffusion problems, matrix solution methods-cyclic reduction, Fourier, Jacobin, Gauss Siedel, Sor, Adi, Chebschev acceleration, Lax-Wendroff scheme, Mccormack scheme, transonic small disturbance equation solution, staggered grids, simple scheme, discrete Fourier transform. Students work on two substantial projects using commercial software. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5152 (3) Introduction to Combustion

Same as MCEN 4152. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-7122 (3) Combustion Phenomena

Applies multicomponent fluid equations of motion and chemical thermodynamics to a variety of combustion problems. Covers droplet combustion, premixed and diffusion flames, boundary layer combustion, detonation wave theory, topics related to internal combustion engines, and liquid and solid rockets. Prereq., MCEN 3012 and 3021. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-2023 (3) Statics and Structures

Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., APPM 1360. Prerequisites: Requires prerequisite course of APPM 1360 or MATH 2300. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or Civil & Envrn Engr Concurrent Degree majors or Mechanical Engr Concurrent Degree majors.

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MCEN-2024 (3) Materials Science

Structure, properties, and processing of metallic, polymeric, ceramic, and composite materials. Perfect and imperfect solids; phase equilibria; transformation kinetics; mechanical behavior; material degradation. Approach incorporates both materials science and materials engineering components. Prereqs., CHEN 1211, CHEM 1221 and PHYS 1110. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors or Civil & Environmental Engineering Concurrent Degree or Mechanical Engineering Concurrent Degree majors

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MCEN-2043 (3) Dynamics

Covers dynamic behavior of particle systems and rigid bodies; 2-D and 3-D kinematics and kinetics; impulse, momentum, potential, and kinetic energy; and work, collision, and vibration. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., MCEN 2023. Formerly MCEN 3043. Prerequisites:

Requires prerequisite courses of MCEN 2023 (or CVEN 2121 or GEEN 3851). Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

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MCEN-2063 (3) Mechanics of Solids

Covers shear force and bending moment, torsion, stresses in beams, deflection of beams, matrix analysis of frame structures, analysis of stress and strain in 2-D and 3-D (field equations, transformations), energy methods, stress concentrations, and columns. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Credit not granted for this course and CVEN 3161. Prerequisites: Requires prerequisite courses of MCEN 2023 or CVEN 2121 or GEEN 3851. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

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MCEN-3012 (3) Thermodynamics

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as GEEN 3852. Prerequisites: Requires prerequisite course of APPM 2350 or MATH 2400. Restricted to students with 57-180 credits (Junior/Senior) MCEN or EVEN majors or concurrent degree majors in CVEN/EVEN or MCEN.

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MCEN-3017 (3) Circuits and Electronics

Introductory course covers analysis of electric circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Prereqs., APPM 2360 and PHYS 1140. Same as ECEN 3010. Prerequisites: Restricted to students in the MSC/CU-Boulder Mechanical Engineering Partnership Program only.

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MCEN-3037 (2) Data Analysis

Learn to plan and carry out experiments. Coverage includes measurement fundamentals, basic statistical concepts, and uncertainty analysis. Use of statistics for the purpose of analyzing data, including regression, correlation, hypothesis testing, classification, time series analysis, and design of experiments. Prereq., APPM 2360. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

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MCEN-4037 (2) Measurements Lab

Carry out several experiments designed to teach methods of experimentation and data analysis. Experiments taken from solid mechanics, fluid mechanics, thermal science, and materials science. Emphasizes planning an experiment, applying sound procedures, keeping proper records, and communicating results orally and in written reports. Gives students the opportunity to participate in projects that extend over two or more weeks. Prerequisites: Requires prerequisites of ECEN3010 & MCEN2063 (or CVEN3161 or ASEN3112) & MCEN3037 (or APPM4520 or 4570 or CVEN3227 or CHEN3010) & WRTG3030 (or WTRG3035 or HUEN3100 or PHYS3050). Restricted to MCEN majors w/57-180 credits (juniors/seniors).

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MCEN-4047 (2) Measurements 2

Four hours of lab per week. Student teams perform laboratory projects that extend over several weeks. Takes experiments from solid mechanics, acoustics, electronics, and other ME-related disciplines. Emphasizes planning an experiment, applying sound experimental procedures, using statistics, keeping proper records, and communicating results orally, on posters, and in written documents. Prerequisites: Requires prerequisite courses of MCEN 2024 and MCEN 4037. Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-4117 (3) Anatomy and Physiology for Engineers

Understanding human physiological function from an engineering, specifically mechanical engineering, viewpoint. Introduction to human anatomy and physiology with a focus on learning fundamental concepts and applying engineering (mass transfer, fluid dynamics, mechanics, modeling) analysis. Same as MCEN 5117. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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MCEN-4208 (3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 4208-4298. Prereq., instructor consent.

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MCEN-4228 (1-4) Special Topics

May be repeated up to 15 credit hours. Prereqs., MCEN 2024 and 2063. Same as MCEN 5228. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-4848 (1-6) Independent Study

Subjects arranged in consultation with undergraduate advisor to fit the needs of the particular student. Numbered MCEN 4848-4898. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-5027 (1) Graduate Seminar

Offers weekly presentations by visiting speakers, faculty, and students. May be repeated up to 6 total credit hours. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5117 (3) Anatomy and Physiology for Engineers

Same as MCEN 4117. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5208 (1-4) Special Topics

Credit hours and subject matter to be arranged. Numbered MCEN 5208-5298. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5228 (1-4) Special Topics

May repeated up to 15 total credit hours. Same as MCEN 4228. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5268 (3) Special Topics

Same as MCEN 4278.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848--5898. Prereq., graduate standing.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous



Courses

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MCEN-3021 (3) Fluid Mechanics

Examines fundamentals of fluid flow with application to engineering problems. Explores fluid statics and kinematics; conservation equations for mass, momentum, and energy; Bernoulli and Euler equations; potential flow; laminar and turbulent viscous boundary layers; laminar and turbulent pipe flow; and compressible fluid flow. Prereqs., APPM 2360 and MCEN 2023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN or MCMR) or Environmental Engineering (EVEN) majors or Civil/Environmental Engineering or Mechanical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Fluids](#)

MCEN-4131 (3) Air Pollution Control Engineering

Introduces air quality regulations, meteorology, and modeling; methods for controlling major classes of air pollutants, including particulate matter and oxides of sulfur and nitrogen; and control technology for industrial sources and motor vehicles. Requires interdisciplinary design projects. Prereq., MCEN 3021 or equivalent. Same as MCEN 5131. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

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MCEN-4141 (3) Indoor Air Pollution

Air pollutants cause material damage and adversely affect human health. People spend over 80 per cent of their time indoors; often, air pollutant levels are higher indoors than outdoors. In this course we study air pollution in indoor environments and design appropriate control technologies. Prereqs., MCEN3021 and 3022. Same as MCEN 5141. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

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[Fluids](#)

MCEN-4151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5021 (3) Introduction to Fluid Dynamics

Focuses on physical properties of gases and liquids, and kinematics of flow fields. Analyzes stress; viscous, heat-conducting Newtonian fluids; and capillary effects and surface-tension-driven flow. Other topics include vorticity and circulation, ideal fluid flow theory in two and three dimensions, Schwartz-Christoffel transformations, free streamline theory, and internal and free-surface waves. Coreq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5041 (3) Viscous Flow

Highlights exact solution of Navier-Stokes equations and fundamentals of rotating fluids. Considers Low Reynolds number flow; similarity solutions; viscous boundary layers, jets, and wakes; and unsteady viscous flow. Prereq., MCEN 5021 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5121 (3) Compressible Flow

Applies energy, continuity, and momentum principles to compressible flow. Topics include normal and oblique shocks; Prandtl-Meyer expansion; methods of characteristics; and one-, two-, and three-dimensional subsonic, supersonic, and hypersonic flows. Prereq., MCEN 5021 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5131 (3) Air Pollution Control Engineering

Same as MCEN 4131. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5141 (3) Indoor Air Pollution

Same as MCEN 4141. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5161 (3) Aerosols

Introduces atmospheric aerosols and properties of their distributions, followed by fundamental descriptions of single particle dynamics, thermodynamics, nucleation, coagulation, mass transfer and populations dynamics. During the second half of the course, the focus will shift to sources and sinks of atmospheric aerosols, their impacts on atmospheric chemistry and radiation, and the impacts of these processes on air quality and climate. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-7221 (3) Turbulence

Hydrodynamic stability theory, equations for turbulent flows, free shear flows and boundary layers, homogeneous and isotropic turbulence, overview of turbulent combustion, reaction kinetics, energy equation, Favre averaging, Pdfs, premixed and nonpremixed flame modeling, and recent developments. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

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MCEN-3017 (3) Circuits and Electronics

Introductory course covers analysis of electric circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Prereqs., APPM 2360 and PHYS 1140. Same as ECEN 3010. Prerequisites: Restricted to students in the MSC/CU-Boulder Mechanical Engineering Partnership Program only.

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MCEN-3021 (3) Fluid Mechanics

Examines fundamentals of fluid flow with application to engineering problems. Explores fluid statics and kinematics; conservation equations for mass, momentum, and energy; Bernoulli and Euler equations; potential flow; laminar and turbulent viscous boundary layers; laminar and turbulent pipe flow; and compressible fluid flow. Prereqs., APPM 2360 and MCEN 2023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN or MCMR) or Environmental Engineering (EVEN) majors or Civil/Environmental Engineering or Mechanical Engineering Concurrent Degree majors only.

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MCEN-3022 (3) Heat Transfer

Studies fundamentals of heat transfer by conduction, convection, and radiation. Provides applications to heat exchangers, solar panels, and boiling and mass transfer. Also covers numerical methods for solving heat transfer problems and design of engineering equipment involving heat transfer processes. Prerequisites: Requires prereq courses of MCEN 3012 (or GEEN 3852, or CHEN 3320, or ASEN 2002, or AREN 2110) & MCEN 3021 (or GEEN 3853, or CHEN 3200, or CVEN 3313) & MCEN 3030. Restricted to students w/ 57-180 credits (Jr or Sr) MCEN or EVEN majors.

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MCEN-3025 (3) Component Design

Application of mechanics and materials science to the detailed design of various machine elements including shafts bearings, gears, brakes, springs, and fasteners. Emphasizes application and open-ended design problems. Prereq., MCEN 2063. Prerequisites: Requires pre-requisite course of MCEN 2063 (or CVEN 3161, or ASEN 3112).

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MCEN-3030 (3) Computational Methods

Studies fundamental numerical techniques for the solution of commonly encountered engineering problems. Includes methods for linear and nonlinear algebraic equations, data analysis, numerical differentiation and integration, ordinary and partial differential equations. Prereqs., GEEN 1300 and APPM 2360, or equivalent, including a working knowledge of Matlab. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, Mechanical (MCEN or MCMR) or Environmental Engineering (EVEN) or Mechanical Engineering Concurrent Degree majors only.

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MCEN-3032 (3) Thermodynamics 2

Offers advanced topics and applications, including thermodynamics of state, entropy and probability, thermodynamic cycles, and reacting and nonreacting mixtures. Provides application to engines and power generation by conventional and alternative energy technologies. Most assignments are design oriented. Prereqs., MCEN 3012 and 3021. Prerequisites: Requires prerequisite course of MCEN 3021 (or CHEN 3200 or CVEN 3313 or GEEN 3853) and MCEN 3012 (or AREN 2110 or GEEN 3852). Restricted to students with 57-180 credits (Junior/Senior) Mechanical Engineering or Environmental Engineering majors only.

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Courses

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MCEN-4026 (3) Manufacturing Processes and Systems

Engineering-science design course that examines manufacturing processes for metals, polymers, and composites as well as manufacturing systems that integrate these processes. Lecture topics include: forming, machining, joining, assembling, process integration, computer-aided manufacturing, and manufacturing system engineering. Prereq., MCEN 2024. Prerequisites: Requires prerequisite course of MCEN 2024. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
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[Manufacturing and Systems](#)

MCEN-5066 (3) Principles and Practices of World Class Manufacturing

Introduces manufacturing principles and practices that are essential to competing successfully in a global environment. Topics include manufacturing as a competitive tool, total quality management, process control, benchmarking, total productive maintenance, just in time, design of experiments, flexible manufacturing, and case studies.

[College of Engineering & Applied Science](#)
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[Manufacturing and Systems](#)

MCEN-5126 (3) Applied Statistics for the Manufacturing and Process Industries

Discusses the concepts and techniques of applied statistics essential to quality control and product/process improvement. Includes computer control (SQC/SPC), sampling methods and time series analysis, and methods of experimental design. Prereq., MCEN 4120. Same as CHEN 5127 and CVEN 5127. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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[Manufacturing and Systems](#)

MCEN-5146 (3) Applied Statistics in Research and Development

Same as CHEN 5128. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5166 (3) Electronics Packaging and Manufacturing

To provide basic knowledge of the technologies and processes required for the packaging and manufacturing of electronic products. Topics covered include wafer fabrication, different levels of packaging, thermal management, life cycle engineering, printed wiring board assembly processes, and process control. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5636 (3) Micro-Electro-Mechanical Systems 1

Addresses issues of micro-electro-mechanical systems (MEMS) modeling, design, and fabrication. Emphasizes the design and fabrication of sensors and actuators due to significance of these devices in optics, medical instruments, navigation components, communications, and robotics. Prereq., instructor consent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-3037 (2) Data Analysis

Learn to plan and carry out experiments. Coverage includes measurement fundamentals, basic statistical concepts, and uncertainty analysis. Use of statistics for the purpose of analyzing data, including regression, correlation, hypothesis testing, classification, time series analysis, and design of experiments. Prereq., APPM 2360. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

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MCEN-3208 (1-3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 3208-3298. Instructor consent required. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

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MCEN-4026 (3) Manufacturing Processes and Systems

Engineering-science design course that examines manufacturing processes for metals, polymers, and composites as well as manufacturing systems that integrate these processes. Lecture topics include: forming, machining, joining, assembling, process integration, computer-aided manufacturing, and manufacturing system engineering. Prereq., MCEN 2024. Prerequisites: Requires prerequisite course of MCEN 2024. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

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MCEN-4037 (2) Measurements Lab

Carry out several experiments designed to teach methods of experimentation and data analysis. Experiments taken from solid mechanics, fluid mechanics, thermal science, and materials science. Emphasizes planning an experiment, applying sound procedures, keeping proper records, and communicating results orally and in written reports. Gives students the opportunity to participate in projects that extend over two or more weeks. Prerequisites: Requires prerequisites of ECEN3010 & MCEN2063 (or CVEN3161 or ASEN3112) & MCEN3037 (or APPM4520 or 4570 or CVEN3227 or CHEN3010) & WRTG3030 (or WTRG3035 or HUEN3100 or PHYS3050). Restricted to MCEN majors w/57-180 credits (juniors/seniors).

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MCEN-4043 (3) System Dynamics

Covers linear dynamic systems and mathematical tools for understanding them, input-output relationships, modeling templates, complex variables, Laplace transform, time-harmonic forcing and response, Fourier series and discrete Fourier transform, and coupled systems. Prereqs., ECEN 3010 and MCEN 2043 or 3043. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

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MCEN-4045 (3) Mechanical Engineering Design Project 1

First part of a two-course capstone design experience in mechanical engineering. Covers problem definition, determining design requirements, alternative design concepts, engineering analysis, proof-of-concept prototype, and CAD drawings. Students make several oral design reviews, a final design presentation, and prepare a written report. Coreq., MCEN 4026. Prerequisites: Requires prerequisite courses of MCEN 3025 & 3032 & 3022 (or CHEN 3210) and GEEN 1400 (or ECEN 1400 or GEEN 3400). Restricted to students with 87-180 credits (Senior) Mechanical Engineering majors or Mechanical Engineering Concurrent Degree majors only.

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MCEN-4047 (2) Measurements 2

Four hours of lab per week. Student teams perform laboratory projects that extend over several weeks. Takes experiments from solid mechanics, acoustics, electronics, and other ME-related disciplines. Emphasizes planning an experiment, applying sound experimental procedures, using statistics, keeping proper records, and communicating results orally, on posters, and in written documents. Prerequisites: Requires prerequisite courses of MCEN 2024 and MCEN 4037. Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-4085 (4) Mechanical Engineering Design Project 2

Second part of a two-course capstone design experience in mechanical engineering. Includes refinement of prototype, design optimization, fabrication, testing, and evaluation. Students orally present the final design and prepare a written report and operation manual for the product. Prereq., MCEN 4026 and 4045. Prerequisites: Requires prerequisite courses of MCEN 4026 and MCEN 4045. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

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MCEN-4115 (3) Mechantronics and Robotics I

Focuses on design and construction of microprocessor-controlled electro-mechanical systems. Lectures review critical circuit topics, introduce microprocessor architecture and programming, discuss sensor and actuator component selection, robotic systems, and design strategies for complex, multi-system devices. Lab work reinforces lectures and allows hands-on experience with robotic design. Students must design and build an autonomous robotic device. Project expenses may be incurred (\$50 maximum). Prereqs., ECEN 3010 or equivalent and GEEN 1300 or equivalent. Same as MCEN 5115. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

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MCEN-4117 (3) Anatomy and Physiology for Engineers

Understanding human physiological function from an engineering, specifically mechanical engineering, viewpoint. Introduction to human anatomy and physiology with a focus on learning fundamental concepts and applying engineering (mass transfer, fluid dynamics, mechanics, modeling) analysis. Same as MCEN 5117. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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MCEN-4120 (3) Engineering Statistics

Focuses on probability and statistics, emphasizing engineering applications. Studies frequency distributions; statistical hypotheses and estimation; nonparametric, linear regression, and correlation; nonlinear and multiple regression; analysis of variance; and quality control. Prereq., APPM 2360.

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MCEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Solids](#)

MCEN-4124 (3) Mechanical Behavior of Materials

Addresses the relationship between material structure and the fundamental processes of deformation, yield, and fracture. Examines elements of elasticity theory, introduction to plasticity, and formulation of failure criteria. Studies basic deformation processes in terms of dislocation mechanics and macroscopic mechanical behavior. Takes into consideration the influence of compositional and processing strengthening mechanisms on mechanical properties. Prereqs., MCEN 2024 and 2063.

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[Mechanical Engineering](#)
[Materials](#)

MCEN-4128 (3) Special Topics

Prereq., MCEN 4025 or equivalent.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Special Topics](#)

MCEN-4131 (3) Air Pollution Control Engineering

Introduces air quality regulations, meteorology, and modeling; methods for controlling major classes of air pollutants, including particulate matter and oxides of sulfur and nitrogen; and control technology for industrial sources and motor vehicles. Requires interdisciplinary design projects. Prereq., MCEN 3021 or equivalent. Same as MCEN 5131. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4133 (3) Biomechanics of Solids

Considers the mechanical behavior of biological materials and emphasizes the relationship between structural characteristics and macroscopic behavior. Focuses first on the mechanical behavior of microscopic protein and polysaccharide elements and then on larger scale soft and hard tissue structures. Prereqs., MCEN 2024, 2063, and 3021 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-4135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-4141 (3) Indoor Air Pollution

Air pollutants cause material damage and adversely affect human health. People spend over 80 per cent of their time indoors; often, air pollutant levels are higher indoors than outdoors. In this course we study air pollution in indoor environments and design appropriate control technologies. Prereqs., MCEN3021 and 3022. Same as MCEN 5141. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4152 (3) Introduction to Combustion

Description of the mechanisms by which fuel and oxidizers are converted into combustion products. Application to practical combustion devices such as Otto, Diesel, gas turbine, and power plant combustion systems. Consideration of combustion-generated air pollution, fire safety, and combustion efficiency. Prereq., MCEN 3012. Recommended prereqs., MCEN 3021 and 3022. Same as MCEN 5152.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-4162 (3) Energy Conversion

Examines common energy-conversion methods and devices. Topics include power-cycle thermodynamics, turbocompressor and expander processes, combustion systems, and applications and limitations of direct energy-conversion systems. Prereq., MCEN 3012.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-4173 (3) Finite Element Analysis

Introductory course covering the theory behind and applications of the finite element method as a general and powerful tool to model a variety of phenomena in mechanical engineering. Applications include structural mechanics, mechanics of elastic continua, and heat conduction. Prereq., MCEN 2023 and 2063, or equivalents. Same as MCEN 5173. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-4174 (3) Failure of Engineering Materials

Examines the failure of materials used in engineering design through a series of real world case studies. Example failure modes considered include overload, fatigue, creep, and corrosion. Example case studies include failure of aircraft, mountaineering ropes, weight training frames, and toilets. Prereqs., MCEN 2024 and 2063. Same as MCEN 5174.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-4183 (3) Mechanics of Composite Materials

Introduces various kinds of composite materials, composite fabrication techniques, the physical and mechanical behavior of composites, and analytical and experimental methodologies. Prereqs., MCEN 2024 and 2063, or equivalents. Same as MCEN 5183.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-4208 (3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 4208-4298. Prereq., instructor consent.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4228 (1-4) Special Topics

May be repeated up to 15 credit hours. Prereqs., MCEN 2024 and 2063. Same as MCEN 5228. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4278 (3) Special Topics

Same as MCEN 5268.

College of Engineering & Applied Science Mechanical Engineering Special Topics

MCEN-4848 (1-6) Independent Study

Subjects arranged in consultation with undergraduate advisor to fit the needs of the particular student. Numbered MCEN 4848-4898. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5020 (3) Methods of Engineering Analysis 1

Studies selected topics from linear algebra, ordinary differential equations, and Fourier series. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., APPM 2360 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-5021 (3) Introduction to Fluid Dynamics

Focuses on physical properties of gases and liquids, and kinematics of flow fields. Analyzes stress; viscous, heat-conducting Newtonian fluids; and capillary effects and surface-tension-driven flow. Other topics include vorticity and circulation, ideal fluid flow theory in two and three dimensions, Schwartz-Christoffel transformations, free streamline theory, and internal and free-surface waves. Coreq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5022 (3) Classical Thermodynamics

First and second laws of thermodynamics. Entropy and availability. Cycle analysis. Thermodynamic properties of pure substances and mixtures. Property relations. Chemical reactions and chemical

availability. Energy systems analysis. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-5023 (3) Solid Mechanics 1

Introduces stress, strain, and motion of a continuous system. Discusses material derivative; fundamental laws of mass, momentum, energy, and entropy; constitutive equations and applications to elastic and plastic materials. Prereq., MCEN 2063 or equivalent; coreq., MCEN 5020 or equivalent. Similar to ASEN 5012. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-5024 (3) Materials Chemistry and Structures

Provides graduate level students with a comprehensive overview of the chemistry and structure of material systems, with a focus on chemical bonding, the resulting material structures and their properties. This course is intended to become one of the four core courses offered in the new Materials Science curriculum. Course topics include: bonding in solids, crystalline and amorphous states, basic group theory, diffraction, metals and alloys, ceramics, and an intro to mat. characterization. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-5025 (3) Computer-Aided Design of Mechanical Systems

Instructs students in displacement, velocity, and accelerations matrix formulation of mechanisms. Emphasizes numerical methods to solve simultaneous nonlinear algebraic and differential equations modeling mechanical devices. Involves analysis and synthesis of mechanical components and systems, including planar and spatial linkages, cams, springs, shafts, and gear trains. Prereqs., MCEN 3030 or equivalent, and MCEN 3025. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-5027 (1) Graduate Seminar

Offers weekly presentations by visiting speakers, faculty, and students. May be repeated up to 6 total credit hours. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5034 (3) Thermodynamics of Materials

Provides a unified presentation of fundamental concepts applicable to the thermodynamics of engineering materials. Develops quantitative tools for understanding the physical principles that govern phase equilibrium and transformation. Generates binary and ternary phase diagrams and determine the resulting materials structures and corresponding physical and mechanical properties. Recommended prereqs., MCEN 2024 and 3012.

College of Engineering & Applied Science | Mechanical Engineering | Materials

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Courses

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MCEN-5040 (3) Methods of Engineering Analysis 2

Studies selected topics from the theory of complex variables, integral transform methods, partial differential equations, and variational methods. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#)
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[Math](#)

MCEN-5041 (3) Viscous Flow

Highlights exact solution of Navier-Stokes equations and fundamentals of rotating fluids. Considers Low Reynolds number flow; similarity solutions; viscous boundary layers, jets, and wakes; and unsteady viscous flow. Prereq., MCEN 5021 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5042 (3) Heat Transfer

Studies development of equations governing transport of heat by conduction, convection, and radiation, and their solution. Includes analytical and numerical solution of initial and boundary value problems representative of heat conduction in solids. Describes heat transfer in free and forced convection, including laminar and turbulent flow. Also involves radiation properties of solids, liquids, and gases and transport of heat by radiation. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5044 (3) Mechanical Behavior of Materials

This introductory-level graduate course incorporates relevant aspects of materials science, solid mechanics, thermodynamics and mathematics, and applies them to achieve a fundamental understanding of the mechanical behavior of crystalline and non-crystalline engineering materials. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students. Prereq., MCEN 2024 and 2063 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-5045 (3) Design for Manufacturability

Topics include general design guidelines for manufacturability; aspects of manufacturing processes that affect design decisions; design rules to maximize manufacturability; statistical considerations; value engineering and design for assembly (manual, robotic, and automatic). Presents case studies of successful products exhibiting Dfm. Prereq., MCEN 4026 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-5066 (3) Principles and Practices of World Class Manufacturing

Introduces manufacturing principles and practices that are essential to competing successfully in a global environment. Topics include manufacturing as a competitive tool, total quality management, process control, benchmarking, total productive maintenance, just in time, design of experiments, flexible manufacturing, and case studies.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5115 (3) Mechantronics and Robotics I

Same as MCEN 4115. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-5117 (3) Anatomy and Physiology for Engineers

Same as MCEN 4117. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-5121 (3) Compressible Flow

Applies energy, continuity, and momentum principles to compressible flow. Topics include normal and oblique shocks; Prandtl-Meyer expansion; methods of characteristics; and one-, two-, and

three-dimensional subsonic, supersonic, and hypersonic flows. Prereq., MCEN 5021 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5122 (3) Statistical Thermodynamics

Axiomatic formulation of macroscopic thermodynamics. Quantum mechanical description of atomic and molecular structure. Statistical mechanics description of thermodynamic properties of gases, liquids and solids. Elementary kinetic theory of gases and evaluation of transport properties. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prereq., undergraduate thermodynamics. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

MCEN-5123 (3) Theory of Vibration

Same as MCEN 4123. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-5125 (3) Optimal Design of Mechanical Components

Applies linear and nonlinear optimization methods to the design of mechanical components and systems. Examines unconstrained and constrained optimization as well as formulation of objective functions, including cost, weight, response time, and deflection. Applies knowledge to gears, springs, cams, and linkages. Prereq., MCEN 3025 and 3030 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-5126 (3) Applied Statistics for the Manufacturing and Process Industries

Discusses the concepts and techniques of applied statistics essential to quality control and product/process improvement. Includes computer control (SQC/SPC), sampling methods and time series analysis, and methods of experimental design. Prereq., MCEN 4120. Same as CHEN 5127 and CVEN 5127. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5131 (3) Air Pollution Control Engineering

Same as MCEN 4131. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to Mechanical Engineering, Civil Engineering or Aerospace Engineering graduate students only.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-5141 (3) Indoor Air Pollution

Same as MCEN 4141. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5142 (3) Computational Fluid Dynamics, Heat Transfer, and Combustion

Finite difference, finite volume, finite element, and spectral methods, consistency, stability and convergence of numerical schemes, governing equations for reacting flows, convection, diffusion, convection-diffusion problems, matrix solution methods-cyclic reduction, Fourier, Jacobin, Gauss Siedel, Sor, Adi, Chebschev acceleration, Lax-Wendroff scheme, McCormack scheme, transonic small disturbance equation solution, staggered grids, simple scheme, discrete Fourier transform. Students work on two substantial projects using commercial software. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

MCEN-5146 (3) Applied Statistics in Research and Development

Same as CHEN 5128. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5152 (3) Introduction to Combustion

Same as MCEN 4152. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-5161 (3) Aerosols

Introduces atmospheric aerosols and properties of their distributions, followed by fundamental descriptions of single particle dynamics, thermodynamics, nucleation, coagulation, mass transfer and populations dynamics. During the second half of the course, the focus will shift to sources and sinks of atmospheric aerosols, their impacts on atmospheric chemistry and radiation, and the impacts of these processes on air quality and climate. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5164 (3) Fracture

Focuses on basic mechanisms controlling fracture in brittle materials, reduction of capacity for plastic deformation in engineering materials used at high-strength levels, and selection of materials in terms of toughness as well as strength. Prereq., MCEN 4124 and 5044, or equivalent.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-5166 (3) Electronics Packaging and Manufacturing

To provide basic knowledge of the technologies and processes required for the packaging and manufacturing of electronic products. Topics covered include wafer fabrication, different levels of packaging, thermal management, life cycle engineering, printed wiring board assembly processes, and process control. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Manufacturing and Systems

MCEN-5173 (3) Finite Element Analysis

Same as MCEN 4173. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-5174 (3) Failure of Engineering Materials

Same as MCEN 4174. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5183 (3) Mechanics of Composite Materials

Same as MCEN 4183. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5208 (1-4) Special Topics

Credit hours and subject matter to be arranged. Numbered MCEN 5208-5298. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5228 (1-4) Special Topics

May repeated up to 15 total credit hours. Same as MCEN 4228. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

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MCEN-5248 (1-3) Special Topics

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-5268 (3) Special Topics

Same as MCEN 4278.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-5636 (3) Micro-Electro-Mechanical Systems 1

Addresses issues of micro-electro-mechanical systems (MEMS) modeling, design, and fabrication. Emphasizes the design and fabrication of sensors and actuators due to significance of these devices in optics, medical instruments, navigation components, communications, and robotics. Prereq., instructor consent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848--5898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-5898 (1-4) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848-5898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6163 (3) Elastic Waves

Effect of transient localized sources or dislocations in an elastic medium is studied. . Modeling and application of waves in rods, beams, and plates is emphasized. In addition, ultrasonic, nondestructive evaluation and seismological problems are discussed. Prereq., MCEN 5023 or equivalent. Recommended MCEN 5040 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-6184 (3) Structure and Properties of Polymers

Emphasizes the relationship between molecular structure and macroscopic properties. Structural aspects include chain conformation, configuration, and the crystalline and amorphous states. Discusses physical and mechanical properties with a focus on solution and phase behavior, transitions of bulk polymers, and rubber and viscoelastic behavior. Prereq., graduate standing and MCEN 5024 and 5044, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-6228 (3) Special Topics

Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6278 (3) Special Topics

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6898 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

MCEN-6949 (1) Master's Degree Candidacy

College of Engineering & Applied Science | Mechanical Engineering | Thesis

MCEN-6959 (1-6) Master's Thesis

College of Engineering & Applied Science | Mechanical Engineering | Thesis

MCEN-7120 (3) Perturbation Methods

Teaches regular and singular perturbation methods for solving ordinary and partial differential equations and for evaluating integrals. Emphasizes formulation of mathematical models in fluid mechanics, combustion, heat transfer, solid mechanics, dynamics, and wave propagation. Prereq., MCEN 5020 and 5040, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-7122 (3) Combustion Phenomena

Applies multicomponent fluid equations of motion and chemical thermodynamics to a variety of combustion problems. Covers droplet combustion, premixed and diffusion flames, boundary layer combustion, detonation wave theory, topics related to internal combustion engines, and liquid and solid rockets. Prereq., MCEN 3012 and 3021. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-7123 (3) Dynamics of Continuous Media

Reflects upon derivation of wave equations from the basic equations of dynamic elasticity. Topics include propagation of elastic waves in infinite and partially bounded media, Rayleigh waves and Love waves, Pochhammer solution for a rod, and waves in plates and in layered and anisotropic media. Prereq., MCEN 5020, 5040, and 5043, or equivalents. Same as PHYS 6680 and GEOL 6680. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-7208 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered MCEN 7208-7298.

College of Engineering & Applied Science Mechanical Engineering Special Topics

MCEN-7221 (3) Turbulence

Hydrodynamic stability theory, equations for turbulent flows, free shear flows and boundary layers, homogeneous and isotropic turbulence, overview of turbulent combustion, reaction kinetics, energy equation, Favre averaging, Pdfs, premixed and nonpremixed flame modeling, and recent developments. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-8999 (1-10) Doctoral Thesis

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MCEN-5020 (3) Methods of Engineering Analysis 1

Studies selected topics from linear algebra, ordinary differential equations, and Fourier series. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., APPM 2360 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5040 (3) Methods of Engineering Analysis 2

Studies selected topics from the theory of complex variables, integral transform methods, partial differential equations, and variational methods. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-7120 (3) Perturbation Methods

Teaches regular and singular perturbation methods for solving ordinary and partial differential equations and for evaluating integrals. Emphasizes formulation of mathematical models in fluid mechanics, combustion, heat transfer, solid mechanics, dynamics, and wave propagation. Prereq., MCEN 5020 and 5040, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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HUEN-1843 (3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Engineering majors only.

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HUEN-1850 (3) Engineering in History: The Social Impact of Technology

Explores how engineering has shaped who we are, how we think, and what we think about, by examining preconceived notions of progress, property, time, and work. Textbook readings plus original sources in philosophy, literature, psychology, and economics provide a rich and stimulating tour of engineering history. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

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HUEN-2010 (3) Tradition and Identity

Explores the place and possibility of personal identity both within and against the influence of tradition, including family, culture, language, and social, political and economic institutions. Via literature and film, wrestles with the nature of freedom, self-determination, and belonging. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-2020 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-2100 (3) History of Science and Technology to Newton

Spans invention and discovery from the Stone Age to the age of Newton, raising questions about culture, history, and personal expectation; studies Pyramids, odometers, cathedrals, Galileo, etc., on the way. Formerly HUEN 1100. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-2120 (3) History of Modern Science from Newton to Einstein

Surveys the great discoveries and theoretical disputes from Newtonian celestial mechanics to the theory of relativity. Includes physics, astronomy, chemistry, geology, and biology; closely examines scientific method, evolution, light and quantum theory. Uses original sources by Newton, Faraday, Lavoisier, Darwin, etc., for immediate contact with the great minds in science. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-2130 (3) History of Modern Technology from 1750 to the Atomic Bomb

Surveys the great innovations from the Steam Age to the Atomic Age: transportation, modern construction, communications, internal combustion, etc. Supplements textbook accounts with drawings, patents, and original selections by Edison, Carnegie, Tesla, Bell, etc. Studies the sociological impact of social change via contemporary sources in literature, philosophy, painting and film. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-2210 (3) Engineering, Science, and Society

Explores challenges that engineering and science pose for society plus the ways that societies shape or impede science and engineering. Case studies range from contemporary issues (global warming, nuclear weapons, and genetic engineering) to classic cases (the execution of Socrates). Core texts in the Western Tradition supplement contemporary articles and films. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-2843 (1-3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering majors only.

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HUEN-3100 (3) Humanities for Engineers 1

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering & Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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HUEN-3200 (3) Humanities for Engineers 2

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering and Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Requires pre-requisite course of HUEN 3100. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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HUEN-3700 (3) Culture Wars in Rome

Investigates in Rome, Italy (during Maymester), the cultural contrasts among three different cities: ancient, pagan, aristocratic Rome; medieval, Christian, theocratic Rome; and modern, secular, democratic Rome. Draws on evidence from Roman literature, politics, art, and architecture. Must have completed a minimum of 26 credit hours by start of course. Requires some preparatory work in Boulder.

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HUEN-3750 (3) Xi'an, China: Self-Awareness and Images of the Other

Explores Chinese culture abroad, focusing on ideas of self and other within special historical, social, political, and economical circumstances. Chinese and American concepts of self and society, of individual, collective, and national identities will be analyzed. Held on the campus of Xi'an Jiaotong University, China. Prerequisite: HUEN 1010 or equivalent.

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HUEN-3840 (1-3) Independent Study

Offers an opportunity for students to do independent work in the humanities. Subject arranged to fit the needs of the student. May be repeated up to 3 total credit hours. Instructor consent required. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

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HUEN-3843 (3) Special Topics

Explores different important themes in the humanities, check with department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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HUEN-4200 (3) Humanities for Engineers 4

Continuation of HUEN 4100. Provides opportunity to pursue a variety of humanistic themes related to Herbst Humanities Program. Prereq., HUEN 4100.

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MCEN-4135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

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MCEN-5025 (3) Computer-Aided Design of Mechanical Systems

Instructs students in displacement, velocity, and accelerations matrix formulation of mechanisms. Emphasizes numerical methods to solve simultaneous nonlinear algebraic and differential equations modeling mechanical devices. Involves analysis and synthesis of mechanical components and systems, including planar and spatial linkages, cams, springs, shafts, and gear trains. Prereqs., MCEN 3030 or equivalent, and MCEN 3025. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5115 (3) Mechantronics and Robotics I

Same as MCEN 4115. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5125 (3) Optimal Design of Mechanical Components

Applies linear and nonlinear optimization methods to the design of mechanical components and systems. Examines unconstrained and constrained optimization as well as formulation of objective functions, including cost, weight, response time, and deflection. Applies knowledge to gears, springs, cams, and linkages. Prereqs., MCEN 3025 and 3030 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

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MCEN-5135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to Mechanical Engineering, Civil Engineering or Aerospace Engineering graduate students only.

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CVEN-2012 (3) Introduction to Geomatics

Observes, analyzes, and presents basic linear, angular, area, and volume field measurements common to civil engineering endeavors with application of GPS and GIS technology. Prereq., APPM 1350 or equivalent. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Surveying and Transportation](#)

CVEN-3022 (3) Construction Surveying

Studies construction and highway surveying, horizontal and vertical curves, earthwork, and analysis of data. Prereq., CVEN 2012.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Surveying and Transportation](#)

CVEN-3032 (3) Photogrammetry

Familiarizes students with characteristics of aerial photographs. Measures and interprets aerial photos for planimetric, topographic, hydrological, soil, and land use surveys. Analyzes and presents field measurements over extensive reaches. Prereq., instructor consent.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Surveying and Transportation](#)

CVEN-3602 (3) Transportation Systems

Introduces technology, operating characteristics, and relative merits of highway, airway, waterway, railroad, pipeline, and convey or transportation systems. Focuses on evaluation of urban transportation systems and recent transportation innovations. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

CVEN-4822 (3) Geographical Information Systems for Civil and Environmental Systems

Theory and use of geographical information systems in civil engineering, environmental studies, natural resources, and other related disciplines. Topics include spatial data models, data capture, global positioning system, database linkage, use in design, analysis and implementation. Laboratory work includes applications of Arc-View and Arc-GIS software. Prereq., CVEN 2012 or instructor consent. Same as CVEN 5822.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

CVEN-5822 (3) Geographical Information Systems for Civil and Environmental Systems

Same as CVEN 4822.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

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AREN-2050 (3) Engineering Systems for Buildings

Provides an overview of the building mechanical and electrical systems, including HVAC, plumbing, solar, power distribution, illumination, life safety, transportation, and noise control systems. Emphasizes sustainable (green) building practices. Includes a team investigation of existing commercial building. Prereqs., AREN 1027 and 2406. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

AREN-2110 (3) Thermodynamics

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Computing in the context of engineering problems is introduced. Prereq., PHYS 1110 or equivalent. Coreq., APPM 1360 or equivalent. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Architectural (AREN), Civil (CVEN), or Environmental (EVEN) Engineering majors or Civil/Environmental (C-EVENCVEN) Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

AREN-2120 (3) Fluid Mechanics and Heat Transfer

Explores fundamental principles of fluid dynamics and heat transfer. Topics include fluid statics, momentum, and energy conservation, laminar and turbulent viscous flow, convection heat transfer, conduction heat transfer, heat exchangers, and heat transfer. Prereqs., APPM 2350 and AREN 2110. Coreq., APPM 2360.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

AREN-3010 (3) Mechanical Systems for Buildings

Lecture course on the analysis and design of buildings and their systems to satisfy the requirements for a comfortable and healthy indoor environment. Examines psychometrics, thermal comfort, building heating and cooling loads, fluid flow basics, and HVAC components and systems. Prereqs., AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852, or MCEN 3012, or ASEN 2002) and AREN 2050. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite courses of AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852 or MCEN 3012 or ASEN 2002) and AREN 2050. Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-3050 (3) Environmental Systems for Buildings 1

Introduces the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-3060 (3) Environmental Systems for Buildings 2

Continues the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-3130 (3) Building Energy Laboratory

Laboratory course offering both hands-on experience with building and renewable energy systems and exposing students to the fundamentals of measurements, instrumentation, data acquisition, and statistical data analysis. Measurements and experiments will allow evaluation of building construction material, electrical equipment, lighting systems, heating and cooling systems, and solar energy devices, among others. Prereq., AREN 3010.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-3140 (3) Illumination Laboratory

Introduces the measurement of photometric and psychophysical quantities used in lighting. Experience is acquired in using light measurement instruments to evaluate lighting equipment and luminous environments. Prereq., AREN 3540.

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AREN-3540 (3) Illumination I

Studies the fundamentals of architectural illumination. Introduces and applies basic principles and vocabulary to elementary problems in the lighting of environments for the performance of visual

work and the proper interaction with architecture. Prerequisites: Requires pre-requisite courses of GEEN 1300 or CSCI 1300 (min grade C-).

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-4010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Prereq., AREN 4110. Same as CVEN 5010.

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AREN-4110 (3) HVAC Design 1

Applies engineering principles to the design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, applied psychometrics, coils and heat exchangers, air and water distribution systems, and primary equipment and systems. Prereq., AREN 3010. Same as CVEN 5110.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-4540 (3) Exterior Lighting Systems

Engages students in exploring and solving lighting problems for exterior environments. Provides an understanding of the design criteria and lighting equipment used in three primary exterior applications: parking lots and roadways, floodlighting of buildings, and sports facilities. Prereq., AREN 3540. Recommended prereqs., AREN 3140 and 4550. Same as CVEN 5540. Taught intermittently.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-4550 (3) Illumination 2

Applies the principles studied in Illumination 1. Provides further study in architectural lighting design methods. Uses lighting studio work to develop a broad knowledge of lighting equipment, design methods, and their application in a series of practical design problems in modern buildings. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-4560 (3) Luminous Radiative Transfer

Teaches fundamentals of radiative exchange as applied to illumination engineering. Describes and uses principal numerical techniques for radiative transfer analysis. Applies techniques to lighting design and analysis. Taught intermittently. Prerequisites: Requires pre-requisite course of AREN 3540.

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AREN-4570 (3) Building Electrical Systems Design 1

Introduces the generation and distribution of electrical power. Focuses on understanding the loads, control, and protection of secondary electrical distribution systems in building. Applies the national electric code to residential and commercial buildings. Prereq., ECEN 3030. Prerequisites: Requires pre-requisite course of ECEN 3030 (min grade C-).

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AREN-4580 (3) Daylighting

Applies the fundamental principles of illumination engineering to architectural daylighting design, exploring the quantitative methods and tools used to develop daylighting designs and evaluate their performance. Topics include solar and sky modeling, luminous radiative transfer, design methods, and controls for integration with electric lighting systems. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4590 (3) Computer Graphics in Lighting Engineering

Studies the numerical methods and computer implementation of computer graphics visualization for architectural lighting engineering and design. Implements finite element radiative transfer and ray-tracing in computer programs. Studies the use of computer graphics visualization in lighting analysis. Taught intermittently. Prerequisites: Requires pre-requisite courses of AREN 3540 and 4560.

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CVEN-2012 (3) Introduction to Geomatics

Observes, analyzes, and presents basic linear, angular, area, and volume field measurements common to civil engineering endeavors with application of GPS and GIS technology. Prereq., APPM 1350 or equivalent. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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AREN-2050 (3) Engineering Systems for Buildings

Provides an overview of the building mechanical and electrical systems, including HVAC, plumbing, solar, power distribution, illumination, life safety, transportation, and noise control systems. Emphasizes sustainable (green) building practices. Includes a team investigation of existing commercial building. Prereqs., AREN 1027 and 2406. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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AREN-2110 (3) Thermodynamics

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Computing in the context of engineering problems is introduced. Prereq., PHYS 1110 or equivalent. Coreq., APPM 1360 or equivalent. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Architectural (AREN), Civil (CVEN), or Environmental (EVEN) Engineering majors or Civil/Environmental (C-EVENCVEN) Engineering Concurrent Degree majors only.

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AREN-2120 (3) Fluid Mechanics and Heat Transfer

Explores fundamental principles of fluid dynamics and heat transfer. Topics include fluid statics, momentum, and energy conservation, laminar and turbulent viscous flow, convection heat transfer, conduction heat transfer, heat exchangers, and heat transfer. Prereqs., APPM 2350 and AREN 2110. Coreq., APPM 2360.

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CVEN-2121 (3) Analytical Mechanics 1

Covers forces acting on rigid bodies at rest. Equilibrium is the central concept that will be applied repeatedly to different situations. In each case, the object of interest will be isolated along with all the forces acting on it; a free body diagram. Equilibrium will be applied to analyze trusses, frames, machines, cables and hydrostatic forces on dams. Prereq., PHYS 1110. Prereq. or coreq., APPM 2350. Same as GEEN 3851. Restricted to freshmen or sophomore Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

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CVEN-2121 (3) Analytical Mechanics 1

Covers forces acting on rigid bodies at rest. Equilibrium is the central concept that will be applied repeatedly to different situations. In each case, the object of interest will be isolated along with all the forces acting on it; a free body diagram. Equilibrium will be applied to analyze trusses, frames, machines, cables and hydrostatic forces on dams. Prereq., PHYS 1110. Prereq. or coreq., APPM 2350. Same as GEEN 3851. Restricted to freshmen or sophomore Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

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[Mechanics](#)

CVEN-3111 (3) Analytical Mechanics 2

Studies the motion (kinematics) of particles and rigid bodies, and the forces that cause the motion (kinetics). Newton's laws as well as energy methods are used to study the motion of particles and rigid bodies in two and three dimensions. Prerequisites: Requires pre-requisite courses of CVEN 2121. Requires a co-requisite course of APPM 2360.

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[Civil Engineering](#)
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CVEN-3161 (3) Mechanics of Materials 1

Addresses concepts of stress and strain; material properties, axial loading, torsion, simple bending, and transverse shear; analysis of stress and strain; and deflections of beams. Includes selected experimental and computational laboratories. Prereq., CVEN 2121. Coreq., APPM 2360. Restricted to Architectural or Civil Engineering majors only. Credit not granted for this course and MCEN 2063. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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[Mechanics](#)

CVEN-4161 (3) Mechanics of Materials 2

Covers advanced topics in the mechanics of solids. Some topics such as asymmetric bending of beams, torsion of non-circular cross-sections etc. are extensions of topics seen in CVEN 3161. Others like buckling and plate bending theory are new. The course presents unifying themes that underlie the study of mechanics. The course includes selected laboratory experiments. Prereq., CVEN 3161. Prerequisites: Requires pre-requisite course of CVEN 3161 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-4511 (3) Introduction to Finite Element Analysis

Systematic formulation of finite element approximation and isoparametric interpolation (weighted residual and energy methods, triangular and quadrilateral elements). Includes computation applications to the solution of one- and two-dimensional stress-deformation problems, steady and transient heat conduction, and viscous flow. Prereqs., CVEN 3161, 3525, and Appm 2360. Same as CVEN 5511.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5111 (3) Structural Dynamics

Introduces dynamic response of linear elastic single and multiple degree of freedom systems. Includes time and frequency domain analysis. Also analyzes building structures. Undergraduate students may contact the instructor for permission to be enrolled. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5131 (3) Continuum Mechanics and Elasticity

Provides foundation for advanced study of structural and material behavior and continuum theories in mechanics. Topics include Cartesian tensors, elements of continuum mechanics, constitutive laws for elastic solids, energy principles, methods of potentials, formulations of 2D and 3D elastostatic problems, and general analytical and numerical solutions.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5161 (3) Advanced Mechanics of Materials I

Covers 3-D stress and strain, failure theories, torsion of open and noncircular sections, thick-wall pressure vessels, non-symmetric bending, shell in thin-walled sections, stability of frames and beam-column behavior. Prerequisites: Restricted to Graduate Students only.

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CVEN-5511 (3) Introduction to Finite Element Analysis

Prereq., graduate standing. Same as Cven 4511. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-6161 (3) Advanced Mechanics of Materials 2

Fundamentals of continuum mechanics, finite deformations, Lagrangian finite strains, Cauchy and Piola Kirchoff stress tensors, plasticity and thermo-elasticity, elements of damage mechanics, elements of fracture mechanics, rheological and viscoelastic theories, and modern experimental techniques. Recommended prereq., CVEN 5161.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-6511 (3) Nonlinear Finite Element Analysis of Solids and Porous Media

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Prereq., PHYS 1110. coreq., APPM1360.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7111 (3) Advanced Structural Dynamics

Includes general vibrations of civil engineering structures and their response to various types of time-dependent loads. Prereq., CVEN 5111.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7141 (3) Plates and Shells

Teaches mathematical theories of plate and shell structures and their applications. Involves numerical finite element solutions of plates and shells of various shapes under static and dynamic loadings. Prereq., CVEN 5121 or 7131.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7161 (3) Fracture Mechanics

This course has three parts. The first covers fundamentals through rigorous mathematical formulations of linear and nonlinear elastic fracture mechanics. The second focuses on materials: theoretical strength, metals, granular materials, polymers, and steel. The third covers numerical (finite element) methods in fracture mechanics. Heavy emphasis is placed on project and independent work. Prereq., CVEN 5121.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7511 (3) Computational Mechanics of Solids and Structures

Looks at finite element methodology for geometric and material nonlinearities. Involves incremental formulations and iterative solution strategies for truly finite increments and quasistatic and

dynamic applications to large deformation and inelastic problems. Prereqs., CVEN 5511 or 6525.

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AREN-2406 (3) Introduction to Building Construction

Covers the broad subject of building materials, assembly details, and their method of construction. Includes codes and classifications, foundations, wood, steel, concrete, masonry, cladding, doors and windows, interiors, and finishes. Formerly AREN 3406. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Architectural Engineering (AREN) majors only.

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AREN-4420 (3) Cost Engineering

Focuses on conceptual cost estimating and evaluation techniques to support engineering design. Topics include assemblies estimating, probabilistic estimating, value engineering, constructability concepts, and life-cycle costing. Prereq., CVEN 3246. Prerequisites: Requires pre-requisite course of CVEN 3246 (min grade C-).

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[Construction](#)

AREN-4466 (3) Construction Planning and Scheduling

Comprehensively studies project management activities for scheduling and delivering construction projects, including the contractor's role in preconstruction and construction activities and the application of CPM/PERT techniques to the planning, scheduling, and control of a construction project. Prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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AREN-2830 (1-3) Special Topics

Supervised study of special topics of interest to students under instructor guidance. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Special Topics](#)

AREN-4830 (1-3) Special Topics for Seniors/Grads.

Supervised study of special topics of interest to students under instructor guidance. May be repeated up to 12 total credit hours. Prereq., instructor consent required.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Special Topics](#)

AREN-4836 (1-3) Special Topics For Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Special Topics](#)

AREN-4837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Special Topics

AREN-4849 (1-3) Independent Study

Offers an independent, in-depth study, research, or design in a selected area of architectural engineering. Offerings are coordinated with individual faculty. Students should consult the Department of Civil, Environmental, and Architectural Engineering. Numbered AREN 4840 through AREN 4849.

College of Engineering & Applied Science | Civil Engineering | Special Topics

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AREN-2406 (3) Introduction to Building Construction

Covers the broad subject of building materials, assembly details, and their method of construction. Includes codes and classifications, foundations, wood, steel, concrete, masonry, cladding, doors and windows, interiors, and finishes. Formerly AREN 3406. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Architectural Engineering (AREN) majors only.

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AREN-2830 (1-3) Special Topics

Supervised study of special topics of interest to students under instructor guidance. Prerequisites: Restricted to College of Engineering majors only.

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AREN-3010 (3) Mechanical Systems for Buildings

Lecture course on the analysis and design of buildings and their systems to satisfy the requirements for a comfortable and healthy indoor environment. Examines psychometrics, thermal comfort, building heating and cooling loads, fluid flow basics, and HVAC components and systems. Prereqs., AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852, or MCEN 3012, or ASEN 2002) and AREN 2050. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite courses of AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852 or MCEN 3012 or ASEN 2002) and AREN 2050. Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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CVEN-3022 (3) Construction Surveying

Studies construction and highway surveying, horizontal and vertical curves, earthwork, and analysis of data. Prereq., CVEN 2012.

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CVEN-3032 (3) Photogrammetry

Familiarizes students with characteristics of aerial photographs. Measures and interprets aerial photos for planimetric, topographic, hydrological, soil, and land use surveys. Analyzes and presents field measurements over extensive reaches. Prereq., instructor consent.

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AREN-3050 (3) Environmental Systems for Buildings 1

Introduces the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

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AREN-3060 (3) Environmental Systems for Buildings 2

Continues the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors.

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CVEN-3111 (3) Analytical Mechanics 2

Studies the motion (kinematics) of particles and rigid bodies, and the forces that cause the motion (kinetics). Newton's laws as well as energy methods are used to study the motion of particles and rigid bodies in two and three dimensions. Prerequisites: Requires pre-requisite courses of CVEN 2121. Requires a co-requisite course of APPM 2360.

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AREN-3130 (3) Building Energy Laboratory

Laboratory course offering both hands-on experience with building and renewable energy systems and exposing students to the fundamentals of measurements, instrumentation, data acquisition, and statistical data analysis. Measurements and experiments will allow evaluation of building construction material, electrical equipment, lighting systems, heating and cooling systems, and solar energy devices, among others. Prereq., AREN 3010.

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AREN-3140 (3) Illumination Laboratory

Introduces the measurement of photometric and psychophysical quantities used in lighting. Experience is acquired in using light measurement instruments to evaluate lighting equipment and luminous environments. Prereq., AREN 3540.

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CVEN-3161 (3) Mechanics of Materials 1

Addresses concepts of stress and strain; material properties, axial loading, torsion, simple bending, and transverse shear; analysis of stress and strain; and deflections of beams. Includes selected experimental and computational laboratories. Prereq., CVEN 2121. Coreq., APPM 2360. Restricted to Architectural or Civil Engineering majors only. Credit not granted for this course and MCEN 2063. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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CVEN-3246 (3) Introduction to Construction

Broad view of concerns, activities, and objectives of people involved in construction: the owner, architect/engineer, contractor, labor, and inspector. Interactive gaming situation relates these people to the construction contract, plans/specifications, estimates/bids, scheduling, law, and financial management. Restricted to junior or senior Civil or Architectural Engineering majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN) or Architectural (AREN) Engineering majors only.

[College of Engineering & Applied Science](#)
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[Construction](#)

CVEN-3256 (3) Construction Equipment and Methods

Integrated study of construction equipment, methods, and economics. Topics include equipment productivity, equipment selection, and construction engineering design within economic constraints. Examples include earthmoving, concrete formwork, and temporary construction. Recommended prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Construction](#)

CVEN-5206 (3) Design Development

Investigates the interrelationship between design decisions and building costs, and the impact of each major building system and building trade on project budgets and schedules. Gives students the opportunity to prepare technical, marketing, and financial packages for investors as well as regulatory and financial institutions. Culminates with detailed presentations of student-developed project prospectuses. Instructor consent required. Restricted to graduate student Civil Engineering (CVEN) or Civil Engineering Concurrent Degree majors only. Taught intermittently. Prerequisites: Restricted to graduate student Civil (CVEN) or Civil Engineering (C-CVEN) Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Construction](#)

CVEN-5216 (3) Applied Construction Financial Management

Interpreting commonly used financial reports in the construction engineering industry sector will be taught. Skills developed in this course will better prepare students to become competent consumers of financial information utilizing the same to influence future results the construction business. Models for financing public and private sector projects will also be explored. Taught intermittently. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-5226 (3) Safety and Quality

Comprehensively studies quality and safety in the construction industry. Statistical techniques for quality assurance and control will be reviewed and applied. The course also extensively focuses on advanced safety management issues such as accident causation theory, economic modeling, safety risk quantification and analysis, design for safety, and emerging technologies. Skills developed in this course will prepare graduate students to be effective quality and safety managers or researchers.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-5246 (3) Legal Aspects of Construction

Applies law in engineering practice; contracts, construction contract documents, construction specification writing, agency, partnership, and property; types of construction contracts; and legal responsibilities and ethical requirements of the professional engineer. Prereq., graduate standing or instructor consent required. Same as CVEN 4087. Taught intermittently. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-5276 (3) Engineering Risk and Decision Analysis

Acquaints students with the fundamental principles and techniques of risk and decision analysis. Oriented toward project-level decisions in which risk or uncertainty plays a central role. Introduces students to Monte Carlo analyses, influence diagrams, and various types of multicriteria decision analyses. Culminates in a larger term project. Recommended prereq., CVEN 3227. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-5286 (3) Design Construction Operations

Considers topics associated with the effective and efficient design of construction operations. Topics include: front end planning; construction labor relations; productivity management. The course will emphasize construction productivity improvement by group field studies and discrete event simulation modeling. In-depth study of the way overtime, changes, weather, and staffing levels influence productivity. Industrial engineering techniques are applied to the construction environment to improve the use of equipment, human, and material resources. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-5326 (3) Construction Project Controls

Examines tools and techniques employed to control design processes and construction operations. Students apply advanced scheduling and estimating techniques, culminating in the concept of earned value project management. Introduces high tech project control tools. Recommended prereqs., AREN 4420 and 4466. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5346 (3) Managing Construction and Engineering Projects and Organizations

Explores organizational and managerial issues and concerns facing executives in engineering and construction organizations. Through readings, case studies, simulation exercises, and projects, students are introduced to and apply concepts of strategy, core competencies, vision, innovation, team dynamics, interpersonal influence, organizational design issues, and global projects to engineering and construction organizations. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5836 (1-3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. May be repeated up to 6 total credit hours. Prereq., Instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-7206 (1) CEM PhD Seminar

Examines emerging research in construction engineering and management. Students will consider and comment on research methods and designs based on their own work and that of CU faculty and other leading researchers. Aims to make CEM Ph.D students better researchers and evaluators of research methods and processes.

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CVEN-3313 (3) Theoretical Fluid Mechanics

Basic principles of fluid mechanic. Covers fluid properties, hydrostatics, fluid flow concepts, including continuity, energy, momentum, dimensional analysis and similitude, and flow in closed conduits. Prereq., CVEN 2121. Prerequisites: Requires pre-requisite course of CVEN 2121 (or GEEN 3851, or ASEN 2001, or MCEN 2023).

[College of Engineering & Applied Science](#)
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CVEN-3323 (3) Hydraulic Engineering

Studies hydraulic engineering theory and applications. Topics include incompressible flow in conduits, pipe system analysis and design, open channel flow, flow measurement, analysis and design of hydraulic machinery. Prereq., CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (ARCH) Engineering majors only.

[College of Engineering & Applied Science](#)
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CVEN-4323 (3) Water Resource Engineering Design

Design of urban water supply, wastewater, and supply stormwater management system, with demand management as an option. Exploration of the feasibility of recycling and reuse of treated wastewater and stormwater. Prereqs., CVEN 3227 and 4147. Same as CVEN 5423.

[College of Engineering & Applied Science](#)
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CVEN-4333 (3) Engineering Hydrology

Studies engineering applications of principles of hydrology, including hydrologic cycle, rainfall and runoff, groundwater, storm frequency and duration studies, stream hydrography, flood frequency, and flood routing. Prerequisites: Requires pre-requisite course of CVEN 3313 (or AREN 2120 or CHEN 3200 or GEEN 3853 or MCEN 3021; all min grade C-). Requires co-requisite course of CVEN 3227 (or APPM 4570 or MCEN 3037).

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-4353 (3) Groundwater Engineering

Studies the occurrence, movement, extraction for use, and quantity and quality aspects of groundwater. Introduces and uses basic concepts to solve engineering and geohydrologic problems. Prereq., Cven 3313. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-4383 (3) Groundwater Modeling

Studies mathematical and numerical techniques needed to develop models to solve problems in water flow and chemical transport in aquifers. Emphasizes the learning of modeling techniques from fundamentals and the application of models to solve problems in groundwater engineering. Recommended prereq., CVEN 4353. Same as CVEN 5383.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5313 (3) Environmental Fluid Mechanics

Analysis of viscous incompressible flows, with first-principle solutions for environmental fluid flows in oceans, rivers, lakes and the atmosphere. Topics include the Navier-Stokes equations, kinematics, vorticity dynamics, geophysical fluid dynamics, and density stratification. Prereqs., APPM 2350, 2360, CVEN 3313, or equivalents. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5333 (3) Multiscale Hydrology

Observations show that peak flows in rainfall-runoff events, and the quantities of annual peak flows, have a power-law dependence on basin area. Physical basis of power laws in peak flows will be explained from mass and momentum conservation equations governing stream flows in self-similar channel networks. Potential engineering applications to predicting floods under a changing climate will be covered. Prereqs., CVEN 4333, 5454 and 5537. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5343 (3) Transport and Dispersion in Surface Water

Studies transport and dispersion of introduced contaminants in turbulent surface water flows. Emphasizes developing a physical understanding of fluid processes responsible for turbulent dispersion. Includes analytical development, numerical modeling, and experimental approaches to the problem.

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CVEN-5353 (3) Groundwater Hydrology

Studies the occurrence, movement, extraction for use, and quantity and quality aspects of groundwater. Introduces and uses basic concepts to solve engineering and geohydrologic problems. Prereqs., CVEN 3313 and APPM 2360, or equivalent, or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CVEN-5363 (3) Modeling of Hydrologic Systems

Introduces students to the techniques used in modeling various processes in the hydrologic cycle. Helps students develop numeric models and computer programs for use in conjunction with existing simulation modes such as HEC1 and HEC2 in a design project. Prerequisites: Requires pre-requisite course of CVEN 3323. Requires a co-requisite course of CVEN 4333.

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CVEN-5373 (3) Water Law, Policy, and Institutions

Discusses contemporary issues in water management based on legal doctrine. Identifies legal issues in water resources problems and discusses in close relationship with technical, economic, and political considerations. Prereq., senior or graduate standing.

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CVEN-5383 (3) Applied Groundwater Modeling

Studies mathematical and numerical techniques needed to develop models to solve problems in water flow and chemical transport in the saturated and unsaturated zones of aquifers. Not only emphasizes the learning of modeling techniques from fundamentals, but also the application of models and modeling methods to solve problems in groundwater engineering, geo-environmental engineering, hazardous waste management, aquifer remediation design, and aquifer clean-up. Prereqs., CVEN 5353, 5454, or equivalent, and APPM 2360 or equivalent. Same as CVEN 4383.

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CVEN-5393 (3) Water Resources Development and Management

Explores the principles governing water resources planning and development. Emphasizes the sciences of water (physical, engineering, chemical, biological, and social) and their interrelationships. Prereq., senior or graduate standing. Same as ECON 6555.

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CVEN-5423 (3) Water Resource Engineering Design

Same as CVEN 4323.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6323 (3) Urban Stormwater Infrastructure Systems

Evaluation and design of more sustainable urban stormwater infrastructure systems including street inlets, on-line and off-line surface storage and infiltration systems. Integrated design for major, minor, and micro storms to provide flood control and drainage as well as control of pollution from stormwater runoff. Simulation and optimization models will be used.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6333 (3) Introduction to Multi-Scale Variability and Scaling in Hydrology

Provides a foundational physical understanding of channel networks, runoff, precipitation, and evapotranspiration at multiple spatial scales of drainage basins using modern analytical concepts for understanding non-linear phenomena, e.g., fractals, multifractals, statistical scaling, criticality, and renormalization. Prereq., CVEN 3313, 5333, 5454, and an upper-division course in probability, or equivalents.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6383 (3) Flow and Transport through Porous Media

Studies basic physics of flow and transport of water, air, and other fluid mixtures through a porous medium. Course topics are relevant to applications in contaminant hydrology, contaminant transport in aquifers, hazardous waste management, geohydrology, soil physics, and geoenvironmental engineering.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6393 (1) Hydrologic Sciences and Water Resources Engineering Seminar

Provides a broad introduction to a variety of research topics from hydrologic sciences and water resources engineering. Offered as a one-hour weekly seminar by the departmental water faculty, graduate students, and external speakers. Restricted to graduate students in engineering. Prerequisites: Restricted to graduate student Civil (CVEN) Engineering students only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour



CVEN-3227 (3) Probability, Statistics and Decision

Introduces uncertainty based analysis concepts and applications in the planning and design of civil engineering systems emphasizing probabilistic, statistics, and design concepts and methods. Restricted to juniors/seniors.

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CVEN-3246 (3) Introduction to Construction

Broad view of concerns, activities, and objectives of people involved in construction: the owner, architect/engineer, contractor, labor, and inspector. Interactive gaming situation relates these people to the construction contract, plans/specifications, estimates/bids, scheduling, law, and financial management. Restricted to junior or senior Civil or Architectural Engineering majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN) or Architectural (AREN) Engineering majors only.

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CVEN-3256 (3) Construction Equipment and Methods

Integrated study of construction equipment, methods, and economics. Topics include equipment productivity, equipment selection, and construction engineering design within economic constraints. Examples include earthmoving, concrete formwork, and temporary construction. Recommended prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

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CVEN-3313 (3) Theoretical Fluid Mechanics

Basic principles of fluid mechanic. Covers fluid properties, hydrostatics, fluid flow concepts, including continuity, energy, momentum, dimensional analysis and similitude, and flow in closed conduits. Prereq., CVEN 2121. Prerequisites: Requires pre-requisite course of CVEN 2121 (or GEEN 3851, or ASEN 2001, or MCEN 2023).

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CVEN-3323 (3) Hydraulic Engineering

Studies hydraulic engineering theory and applications. Topics include incompressible flow in conduits, pipe system analysis and design, open channel flow, flow measurement, analysis and design of hydraulic machinery. Prereq., CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (ARCH) Engineering majors only.

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CVEN-3414 (3) Fundamentals of Environmental Engineering

Emphasizes chemical, ecological, and hydrological fundamentals and importance of mass and energy balances in solving environmental engineering problems related to water quality, water and wastewater treatment, air pollution, solid and hazardous waste management, sustainability, and risk assessment. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 1360 (or MATH 2300). Restricted to Civil, Architectural, Environmental, Mechanical or Chemical Engineering majors only.

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[Civil Engineering](#)
[Environmental](#)

CVEN-3424 (3) Water and Wastewater Treatment

Introduces design and operation of facilities for treatment of municipal water supplies and wastewater. Provides an engineering application of physical, chemical, and biological unit processes and operations for removal of impurities and pollutants. Involves an integrated design of whole treatment systems combining process elements. Prereq., CVEN 3414. Prerequisites: Requires pre-requisite course of CVEN 3414 (min grade C-).

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Environmental](#)

CVEN-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Same as ENVS 3434. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351). Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN), Environmental (EVEN) or Architectural Engineering (AREN) majors.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Environmental](#)

CVEN-3525 (3) Structural Analysis

Studies structural analysis of statically determinate and indeterminate systems, deflections, energy methods, and force method. Prereq., CVEN 3161 or MCEN 2063. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Structures

AREN-3540 (3) Illumination I

Studies the fundamentals of architectural illumination. Introduces and applies basic principles and vocabulary to elementary problems in the lighting of environments for the performance of visual work and the proper interaction with architecture. Prerequisites: Requires pre-requisite courses of GEEN 1300 or CSCI 1300 (min grade C-).

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-3602 (3) Transportation Systems

Introduces technology, operating characteristics, and relative merits of highway, airway, waterway, railroad, pipeline, and convey or transportation systems. Focuses on evaluation of urban transportation systems and recent transportation innovations. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

CVEN-3698 (3) Engineering Geology

Highlights the role of geology in engineering minerals; rocks; surficial deposits; rocks and soils as engineering materials; distribution of rocks at and below the surface; hydrologic influences; geologic exploration of engineering sites; mapping; and geology of underground excavations, slopes, reservoirs, and dam sites. Includes field trips.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-3708 (3) Geotechnical Engineering 1

Studies basic characteristics of geological materials; soil and rock classifications; site investigation; physical, mechanical, and hydraulic properties of geologic materials; the effective stress principle; soil and rock improvement; seepage analysis; stress distribution; and consolidation and settlement analyses. Selected experimental and computational laboratories. Prereq., CVEN 3161 or MCEN 2063. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-3718 (3) Geotechnical Engineering 2

Discusses shear strength, bearing capacity, lateral earth pressures, slope stability, and underground construction. Analyzes and looks at the design of shallow and deep foundations, retaining walls, tunnels, and other earth and rock structures. Selected experimental and computational laboratories. Prereq., CVEN 3708. Prerequisites: Requires pre-requisite course of CVEN 3708 (minimum grade C-). Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Geotechnical

College of Engineering & Applied Science | Civil Engineering | Geotechnical

AREN-4010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Prereq., AREN 4110. Same as CVEN 5010.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4035 (3) Architectural Structures 1

Analyzes basic structural systems. Covers principles of mechanics and mechanical properties of materials and analysis and design of trusses, arches, and cable structures. For nonengineering students; does not apply toward an engineering degree. Prereq., PHYS1110, and APPM 1350 or MATH 1300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Design majors only.

College of Engineering & Applied Science | Civil Engineering | Structures

AREN-4045 (3) Architectural Structures 2

Analyzes basic structural systems. Covers principles of mechanics as applied to the design of flexural members, columns, continuous beams, and rigid frames. For nonengineering students; does not apply toward an engineering degree. Prereq., AREN 4035.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-4087 (3) Construction Contract Administration

Students will develop a working understanding of the various types of contracts, key contract provisions, how to evaluate contract risk, ethical requirements, and most importantly explore effective contract administration. Construction and engineering contracts are at the core of all project relationships. Through lecture, group dialog and case studies students will develop confidence in their ability to assess, understand and deploy contract administration in a construction setting. Prereq., senior standing in civil or architectural engineering or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

AREN-4110 (3) HVAC Design 1

Applies engineering principles to the design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, applied psychometrics, coils and heat exchangers, air and water distribution systems, and primary equipment and systems. Prereq., AREN 3010. Same as CVEN 5110.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CVEN-4147 (3) Civil Engineering Systems

Theory and application of the principles of engineering economics, and classical and metaheuristic optimization techniques for evaluating problems in civil and environmental engineering. Same as CVEN 5147. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-4161 (3) Mechanics of Materials 2

Covers advanced topics in the mechanics of solids. Some topics such as asymmetric bending of beams, torsion of non-circular cross-sections etc. are extensions of topics seen in CVEN 3161. Others like buckling and plate bending theory are new. The course presents unifying themes that underlie the study of mechanics. The course includes selected laboratory experiments. Prereq., CVEN 3161. Prerequisites: Requires pre-requisite course of CVEN 3161 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Mechanics

AREN-4315 (3) Design of Masonry Structures

Covers modern masonry construction; properties and behavior of the reinforced masonry component materials, clay and concrete masonry units, mortar, grout, and steel reinforcement; vertical and lateral load types and intensities; and design of reinforced masonry walls, beams, and columns by working stress and strength design methods. Prereq., CVEN 3525.

College of Engineering & Applied Science | Civil Engineering | Structures

AREN-4317 (5) Architectural Engineering Design

Provides a capstone experience to AREN students. Students design a modest commercial building and complete an integrated engineering design of the building systems executed for the conceptual, schematic, and design development phases. Students' teams work on structural, mechanical, electrical/lighting, and construction engineering management design. Each stage produce a professional-quality design document. Faculty and industry mentors participate in the teaching and evaluation of designs. Prerequisites: Requires pre-requisite courses of AREN 3010, CVEN 3246, CVEN 3525, and AREN 3540 (all min grade C-). Requires a pre-requisite or co-requisite course of AREN 4570.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-4323 (3) Water Resource Engineering Design

Design of urban water supply, wastewater, and supply stormwater management system, with demand management as an option. Exploration of the feasibility of recycling and reuse of treated wastewater and stormwater. Prereqs., CVEN 3227 and 4147. Same as CVEN 5423.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-4333 (3) Engineering Hydrology

Studies engineering applications of principles of hydrology, including hydrologic cycle, rainfall and runoff, groundwater, storm frequency and duration studies, stream hydrography, flood frequency, and flood routing. Prerequisites: Requires pre-requisite course of CVEN 3313 (or AREN 2120 or CHEN 3200 or GEEN 3853 or MCEN 3021; all min grade C-). Requires co-requisite course

of CVEN 3227 (or APPM 4570 or MCEN 3037).

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-4353 (3) Groundwater Engineering

Studies the occurrence, movement, extraction for use, and quantity and quality aspects of groundwater. Introduces and uses basic concepts to solve engineering and geohydrologic problems. Prereq., Cven 3313. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-4383 (3) Groundwater Modeling

Studies mathematical and numerical techniques needed to develop models to solve problems in water flow and chemical transport in aquifers. Emphasizes the learning of modeling techniques from fundamentals and the application of models to solve problems in groundwater engineering. Recommended prereq., CVEN 4353. Same as CVEN 5383.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-4404 (3) Water Chemistry

Introduces chemical fundamentals of inorganic aqueous compounds and contaminants in lecture and laboratory. Lecture topics include thermodynamics and kinetics of acids and base reactions, carbonate chemistry, air-water exchange, precipitation, dissolution, complexation, oxidation-reduction, and sorption. Prereqs., CHEN 1211 and CVEN 3414, or CHEM 1111 and 1131 for non-engineers. Restricted to CVEN and EVEN majors only. Formerly CVEN 3454. Prerequisites: Restricted to Civil (CVEN) or Environmental (EVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-4414 (1) Water Chemistry Laboratory

Reinforces chemical fundamentals of inorganic aqueous compounds and contaminants from CVEN 4404 Water Chemistry in laboratory experiments and reports. Topics include acids and bases, carbonate chemistry (alkalinity), and other water chemistry characteristics (hardness, dissolved oxygen); precipitation, complexation, and oxidation-reduction reactions; and laboratory techniques and reporting. Prereqs., CHEN 1211 and CVEN 3414 or CHEN 1111 and 1131 for non-engineers. Coreq., CVEN 4404. Restricted to CVEN or EVEN majors only. Prerequisites: Restricted to Civil (CVEN) or Environmental (EVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Environmental

AREN-4420 (3) Cost Engineering

Focuses on conceptual cost estimating and evaluation techniques to support engineering design. Topics include assemblies estimating, probabilistic estimating, value engineering, constructability concepts, and life-cycle costing. Prereq., CVEN 3246. Prerequisites: Requires pre-requisite course of CVEN 3246 (min grade C-).

College of Engineering & Applied Science Civil Engineering Construction

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CVEN-4424 (3) Environmental Organic Chemistry

Examines the fundamental physical and chemical transformations affecting the fate and transport of organic contaminants in natural and treated waters. Emphasizes quantitative approach to solubility, vapor pressure, air-water exchange, sorption, hydrolysis and redox reactions, and photodegradation. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1271 or CHEM 1371).

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Environmental](#)

CVEN-4434 (4) Environmental Engineering Design

Examines the design of facilities for the treatment of municipal water and wastewater, hazardous industrial waste, contaminated environmental sites, and sustainable sanitation in developing countries. Economic, societal, and site specific criteria impacting designs are emphasized. Prereq., CVEN 3414. Restricted to seniors. Prerequisites: Requires pre-requisite course of CVEN 3414 (min grade C-).

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Environmental](#)

CVEN-4464 (3) Environmental Engineering Processes

Develops and utilizes analytic solutions for environmental process models that can be used in a) reactor design for processes used in the treatment of water, wastewater and hazardous waste and b) process analysis of natural systems, such as streams and groundwater flow. Models facilitate the tracking of contaminants in engineered and natural systems. Prereq. or coreq., CVEN 3414 or equivalent and Fluid Mechanics. CVEN 4464 and 5464 are the same course.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Environmental](#)

AREN-4466 (3) Construction Planning and Scheduling

Comprehensively studies project management activities for scheduling and delivering construction projects, including the contractor's role in preconstruction and construction activities and the application of CPM/PERT techniques to the planning, scheduling, and control of a construction project. Prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only.

Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-4474 (3) Hazardous and Industrial Waste Management

Evaluates processes used for treatment of wastes requiring special handling and disposal: toxic organic chemicals, heavy metals, and acidic, caustic, and radioactive waste material. Discusses techniques for destruction, immobilization, and resource recovery and assessment of environmental impact of treatment process end products. Prereq., CVEN 3414. Same as CVEN 5474.

Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4484 (3) Introduction to Environmental Microbiology

Surveys microbiology topics germane to modern civil and environmental engineering. Provides fundamentals needed to understand microbial processes and ecology in engineered and natural systems and reviews applications emphasizing the interface between molecular biology and classical civil engineering. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 2350 (or MATH 2400).

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4511 (3) Introduction to Finite Element Analysis

Systematic formulation of finite element approximation and isoparametric interpolation (weighted residual and energy methods, triangular and quadrilateral elements). Includes computation applications to the solution of one- and two-dimensional stress-deformation problems, steady and transient heat conduction, and viscous flow. Prereqs., CVEN 3161, 3525, and Appm 2360. Same as CVEN 5511.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-4525 (3) Analysis of Framed Structures

Studies matrix formulation of principles of structural analysis and development of direct stiffness and flexibility methods for analysis of frame and truss structures. Topics include support settlements, thermal loads, and energy formulations of force-displacement relationships. Prereq., CVEN 3525. Same as CVEN 5525.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-4537 (3) Numerical Methods in Civil Engineering

Introduces the use of numerical methods in the solution of civil engineering problems, emphasizing obtaining solutions with high-speed electronic computers. Applies methods to all types of civil

engineering problems. Prereq., senior standing. Same as CVEN 5537.

College of Engineering & Applied Science Civil Engineering Miscellaneous

AREN-4540 (3) Exterior Lighting Systems

Engages students in exploring and solving lighting problems for exterior environments. Provides an understanding of the design criteria and lighting equipment used in three primary exterior applications: parking lots and roadways, floodlighting of buildings, and sports facilities. Prereq., AREN 3540. Recommended prereqs., AREN 3140 and 4550. Same as CVEN 5540. Taught intermittently.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-4545 (3) Steel Design

Applies basic principles to design of steel structures; design of tension members, columns, beams, open-web joists, steel decks, bolts, bolted connections, welding processes, and welded connections. Prereq., CVEN 3525. Prerequisites: Requires pre-requisite course of CVEN 3525 (min grade C-).

College of Engineering & Applied Science Civil Engineering Structures

AREN-4550 (3) Illumination 2

Applies the principles studied in Illumination 1. Provides further study in architectural lighting design methods. Uses lighting studio work to develop a broad knowledge of lighting equipment, design methods, and their application in a series of practical design problems in modern buildings. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-4554 (3) Fundamentals of Air Quality Management

Introduces engineering methods for the study of air quality. Topics include: indoor air quality, greenhouse gases, dispersion modeling, acidification of lakes, sources apportionment modeling, chemistry of combustion, pollution sources and controls, and human exposure to air pollutants. Under consideration as requirement for EVEN students in air quality track or concentration course in environmental engineering for undergraduate CVEN students. Prereqs., APPM 2360 (or MATH 3130 and 4430) and CVEN 3313 (or CHEN 3200 or MCEN 3021). Same as CVEN 5554. Prerequisites: Requires pre-requisite courses of APPM 2360 (or MATH 3130 and 4430) and CHEN 3313 (or CHEN 3200 or MCEN 3021).

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-4555 (3) Reinforced Concrete Design

Focuses on applications to the design of reinforced concrete structures, including design of beams, columns, slabs, and footings; continuous beams and frames; cast-in-place buildings. Prereq., CVEN 3525.

College of Engineering & Applied Science Civil Engineering Structures

AREN-4560 (3) Luminous Radiative Transfer

Teaches fundamentals of radiative exchange as applied to illumination engineering. Describes and uses principal numerical techniques for radiative transfer analysis. Applies techniques to lighting design and analysis. Taught intermittently. Prerequisites: Requires pre-requisite course of AREN 3540.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CVEN-4565 (3) Timber Design

Applies design methods to beams, columns, trusses, and connections using timber and glued, laminated members. Prerequisites: Requires pre-requisite course of CVEN 3525.

College of Engineering & Applied Science | Civil Engineering | Structures

AREN-4570 (3) Building Electrical Systems Design 1

Introduces the generation and distribution of electrical power. Focuses on understanding the loads, control, and protection of secondary electrical distribution systems in building. Applies the national electric code to residential and commercial buildings. Prereq., ECEN 3030. Prerequisites: Requires pre-requisite course of ECEN 3030 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4580 (3) Daylighting

Applies the fundamental principles of illumination engineering to architectural daylighting design, exploring the quantitative methods and tools used to develop daylighting designs and evaluate their performance. Topics include solar and sky modeling, luminous radiative transfer, design methods, and controls for integration with electric lighting systems. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4590 (3) Computer Graphics in Lighting Engineering

Studies the numerical methods and computer implementation of computer graphics visualization for architectural lighting engineering and design. Implements finite element radiative transfer and ray-tracing in computer programs. Studies the use of computer graphics visualization in lighting analysis. Taught intermittently. Prerequisites: Requires pre-requisite courses of AREN 3540 and 4560.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

CVEN-4700 (3) Sustainability and the Built Environment

Introduces fundamental concepts of sustainability and sustainable development. Special emphasis on understanding the interaction of the built environment with natural systems and the role of technical and non-technical issues in engineering decisions. Open to engineering and non-engineering students. Same as CVEN 5700.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-4718 (3) Mechanics and Dynamics of Glaciers

Focuses on geotechnical design of shallow and deep foundations, including spread footings, mats, driven piles, and drilled piers. Coverage includes bearing capacity, settlement, group effects, and lateral load capacity of the various foundation types. Additional topics include subsurface exploration, construction of deep foundations, and analysis of pile behavior using wave equation and dynamic monitoring methods. Prereqs., CVEN 3718 or instructor consent. Same as CVEN 5728.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-4728 (3) Foundation Engineering

Focuses on geotechnical design of shallow and deep foundations, including spread footings, mats, driven piles, and drilled piers. Coverage includes bearing capacity, settlement, group effects, and lateral load capacity of the various foundation types. Additional topics include subsurface exploration, construction of deep foundations, and analysis of pile behavior using wave equation and dynamic monitoring methods. Prereqs., CVEN 3718 or instructor consent. Same as CVEN 5728.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-4822 (3) Geographical Information Systems for Civil and Environmental Systems

Theory and use of geographical information systems in civil engineering, environmental studies, natural resources, and other related disciplines. Topics include spatial data models, data capture, global positioning system, database linkage, use in design, analysis and implementation. Laboratory work includes applications of Arc-View and Arc-GIS software. Prereq., CVEN 2012 or instructor consent. Same as CVEN 5822.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

AREN-4830 (1-3) Special Topics for Seniors/Grads.

Supervised study of special topics of interest to students under instructor guidance. May be repeated up to 12 total credit hours. Prereq., instructor consent required.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-4834 (1-3) Special Topics

Prereq., instructor consent. May be repeated up to 6 total credit hours provided topics are different.

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AREN-4836 (1-3) Special Topics For Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

[College of Engineering & Applied Science](#)
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[Special Topics](#)

AREN-4837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

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CVEN-4837 (1-3) Special Topics

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CVEN-4839 (3-6) Special Topics for Seniors

Offers a supervised study of special topics, under instructor guidance. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Special Topics

AREN-4849 (1-3) Independent Study

Offers an independent, in-depth study, research, or design in a selected area of architectural engineering. Offerings are coordinated with individual faculty. Students should consult the Department of Civil, Environmental, and Architectural Engineering. Numbered AREN 4840 through AREN 4849.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-4878 (1-3) Independent Study

Involves an independent, in-depth study, research, or design in a selected area of civil or environmental engineering. Offerings are coordinated with individual faculty. Students should consult the Department of Civil, Environmental, and Architectural Engineering. Numbered CVEN 4840 through CVEN 4878.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-4899 (4) Civil Engineering Senior Project Design

Provides a simulated real world design and construction planning experience with multiple constraints including budget, schedule, technical, regulatory, and societal. Teams integrate the multiple civil engineering sub-disciplines. Requires gathering relevant data, understanding client needs, identifying constraints, and applying applicable regulations, codes and standards. Final deliverables include: detailed design drawings, specifications, cost estimate, project schedule, construction plan, oral and written presentation. Prereq., senior standing.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-5010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Same as AREN 4010.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5020 (3) Building Energy Audits

Analyzes and measures performance of HVAC systems, envelopes, lighting and hot water systems, and modifications to reduce energy use. Emphasizes existing buildings. Prereq., AREN 3010 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5030 (3) Architectural Lighting Equipment Design

Covers the specification and design of nonimaging optical systems for architectural lighting equipment reflector design. Develops and uses computer software to design optics that are prototyped and tested in the laboratory. Prereq., AREN 3540 or CVEN 5830. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5040 (3) Lighting Systems Engineering

Introduces architectural lighting, including vision and perception, lighting equipment and its characteristics, calculations and analysis, and the process of lighting design. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5050 (3) Advanced Solar Design

Predicts performance and analyzes economics of high temperature, photovoltaic, and other innovative solar systems. Also includes performance prediction methods for solar processes. Prereqs., AREN 2120, coursework in thermodynamics, fluid mechanics and heat transfer. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5070 (3) Thermal Analysis of Building

Examines response factors, conduction transfer functions, and weighting factors for dynamic analysis of building envelopes. Also studies radiative and convective exchange in buildings, internal gains, and infiltration analysis as modeled in hourly simulations. Prereq., AREN 3010 or equivalent.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5080 (3) Computer Simulation of Building Energy Systems

Introduces major simulation programs for analysis of building energy loads and system performance. Focuses on one hourly simulation program to develop capability for analysis of multizone structure. Prereq., AREN 4110 or CVEN 5110. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5110 (3) HVAC Design 1

Explores design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, code compliance, duct design, fan systems, applied psychrometrics, cooling and heating coils, filters, hydronic systems, piping, and pumps. Prereq., AREN 3010 or equivalent. Same as AREN 4110.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5111 (3) Structural Dynamics

Introduces dynamic response of linear elastic single and multiple degree of freedom systems. Includes time and frequency domain analysis. Also analyzes building structures. Undergraduate students may contact the instructor for permission to be enrolled. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5131 (3) Continuum Mechanics and Elasticity

Provides foundation for advanced study of structural and material behavior and continuum theories in mechanics. Topics include Cartesian tensors, elements of continuum mechanics, constitutive laws for elastic solids, energy principles, methods of potentials, formulations of 2D and 3D elastostatic problems, and general analytical and numerical solutions.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5147 (3) Civil Engineering Systems

Same as CVEN 4147. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-5161 (3) Advanced Mechanics of Materials I

Covers 3-D stress and strain, failure theories, torsion of open and noncircular sections, thick-wall pressure vessels, non-symmetric bending, shell in thin-walled sections, stability of frames and beam-column behavior. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5206 (3) Design Development

Investigates the interrelationship between design decisions and building costs, and the impact of each major building system and building trade on project budgets and schedules. Gives students the opportunity to prepare technical, marketing, and financial packages for investors as well as regulatory and financial institutions. Culminates with detailed presentations of student-developed project prospectuses. Instructor consent required. Restricted to graduate student Civil Engineering (CVEN) or Civil Engineering Concurrent Degree majors only. Taught intermittently. Prerequisites: Restricted to graduate student Civil (CVEN) or Civil Engineering (C-CVEN) Concurrent Degree majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5216 (3) Applied Construction Financial Management

Interpreting commonly used financial reports in the construction engineering industry sector will be taught. Skills developed in this course will better prepare students to become competent consumers of financial information utilizing the same to influence future results the construction business. Models for financing public and private sector projects will also be explored. Taught intermittently. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5226 (3) Safety and Quality

Comprehensively studies quality and safety in the construction industry. Statistical techniques for quality assurance and control will be reviewed and applied. The course also extensively focuses on advanced safety management issues such as accident causation theory, economic modeling, safety risk quantification and analysis, design for safety, and emerging technologies. Skills developed in this course will prepare graduate students to be effective quality and safety managers or researchers.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5246 (3) Legal Aspects of Construction

Applies law in engineering practice; contracts, construction contract documents, construction specification writing, agency, partnership, and property; types of construction contracts; and legal responsibilities and ethical requirements of the professional engineer. Prereq., graduate standing or instructor consent required. Same as CVEN 4087. Taught intermittently. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5276 (3) Engineering Risk and Decision Analysis

Acquaints students with the fundamental principles and techniques of risk and decision analysis. Oriented toward project-level decisions in which risk or uncertainty plays a central role. Introduces students to Monte Carlo analyses, influence diagrams, and various types of multicriteria decision analyses. Culminates in a larger term project. Recommended prereq., CVEN 3227. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5286 (3) Design Construction Operations

Considers topics associated with the effective and efficient design of construction operations. Topics include: front end planning; construction labor relations; productivity management. The course will emphasize construction productivity improvement by group field studies and discrete event simulation modeling. In-depth study of the way overtime, changes, weather, and staffing levels influence productivity. Industrial engineering techniques are applied to the construction environment to improve the use of equipment, human, and material resources. Prerequisites: Restricted to Graduate Students only.

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CVEN-5313 (3) Environmental Fluid Mechanics

Analysis of viscous incompressible flows, with first-principle solutions for environmental fluid flows in oceans, rivers, lakes and the atmosphere. Topics include the Navier-Stokes equations, kinematics, vorticity dynamics, geophysical fluid dynamics, and density stratification. Prereqs., APPM 2350, 2360, CVEN 3313, or equivalents. Prerequisites: Restricted to Graduate Students only.

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CVEN-5323 (3) Applied Stream Ecology

Emphasizes the integration of hydrologic, chemical, and biological processes in controlling river, stream, and reservoir ecosystems at several spatial scales. Students apply ecosystem concepts to current environmental and water quality problems and learn field methods in field trips and a team project. Prereqs., general chemistry, physics. Recommended prereqs., hydrology, ecology, or environmental chemistry. Prerequisites: Restricted to Graduate Students only.

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CVEN-5326 (3) Construction Project Controls

Examines tools and techniques employed to control design processes and construction operations. Students apply advanced scheduling and estimating techniques, culminating in the concept of earned value project management. Introduces high tech project control tools. Recommended prereqs., AREN 4420 and 4466. Taught intermittently.

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CVEN-5333 (3) Multiscale Hydrology

Observations show that peak flows in rainfall-runoff events, and the quantities of annual peak flows, have a power-law dependence on basin area. Physical basis of power laws in peak flows will be explained from mass and momentum conservation equations governing stream flows in self-similar channel networks. Potential engineering applications to predicting floods under a changing climate will be covered. Prereqs., CVEN 4333, 5454 and 5537. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5343 (3) Transport and Dispersion in Surface Water

Studies transport and dispersion of introduced contaminants in turbulent surface water flows. Emphasizes developing a physical understanding of fluid processes responsible for turbulent dispersion. Includes analytical development, numerical modeling, and experimental approaches to the problem.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5346 (3) Managing Construction and Engineering Projects and Organizations

Explores organizational and managerial issues and concerns facing executives in engineering and construction organizations. Through readings, case studies, simulation exercises, and projects, students are introduced to and apply concepts of strategy, core competencies, vision, innovation, team dynamics, interpersonal influence, organizational design issues, and global projects to engineering and construction organizations. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-5353 (3) Groundwater Hydrology

Studies the occurrence, movement, extraction for use, and quantity and quality aspects of groundwater. Introduces and uses basic concepts to solve engineering and geohydrologic problems. Prereqs., CVEN 3313 and APPM 2360, or equivalent, or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5363 (3) Modeling of Hydrologic Systems

Introduces students to the techniques used in modeling various processes in the hydrologic cycle. Helps students develop numeric models and computer programs for use in conjunction with existing simulation modes such as HEC1 and HEC2 in a design project. Prerequisites: Requires pre-requisite course of CVEN 3323. Requires a co-requisite course of CVEN 4333.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5373 (3) Water Law, Policy, and Institutions

Discusses contemporary issues in water management based on legal doctrine. Identifies legal issues in water resources problems and discusses in close relationship with technical, economic, and political considerations. Prereq., senior or graduate standing.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5383 (3) Applied Groundwater Modeling

Studies mathematical and numerical techniques needed to develop models to solve problems in water flow and chemical transport in the saturated and unsaturated zones of aquifers. Not only emphasizes the learning of modeling techniques from fundamentals, but also the application of models and modeling methods to solve problems in groundwater engineering, geo-environmental engineering, hazardous waste management, aquifer remediation design, and aquifer clean-up. Prereqs., CVEN 5353, 5454, or equivalent, and APPM 2360 or equivalent. Same as CVEN 4383.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5393 (3) Water Resources Development and Management

Explores the principles governing water resources planning and development. Emphasizes the sciences of water (physical, engineering, chemical, biological, and social) and their interrelationships. Prereq., senior or graduate standing. Same as ECON 6555.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5404 (3) Water Chemistry

Introduces chemical fundamentals governing the chemistry of natural and treated waters in lecture and laboratory. Lecture topics include thermodynamics and kinetics of acids and base reactions, carbonate chemistry, air-water exchange, precipitation, dissolution, complexation, oxidation-reduction, and sorption. Laboratory experiments emphasize lecture concepts with measurements on local waters. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5414 (3) Water Chemistry Laboratory

Uses experimental and analytical laboratory techniques to develop a better understanding of the concepts of aquatic chemistry and to investigate water chemistry in treated and natural water systems. Techniques include titration, spectrophotometry, gas chromatography, other advanced instrumentation, sampling, portable analyses, and basic statistics and experimental design. Course focuses on water chemistry of Boulder Creek and other local waters. Prereq., CVEN 5404 or GEOL 5280. Coreq., CVEN 5424.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5423 (3) Water Resource Engineering Design

Same as CVEN 4323.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-5424 (3) Environmental Organic Chemistry

Examines the fundamental physical and chemical transformations affecting the fate and transport of organic contaminants in natural and treated waters. Emphasizes solubility, vapor pressure, air-water exchange, sorption, abiotic and biotic reactions, and photodegradation.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5434 (3) Environmental Engineering Design

Team-based design of facilities or processes for water or wastewater or solid waste treatment or remediation under multiple real-world constraints. Prereq., instructor consent. Recommended prereq., CVEN 5524, 5534, or 5474.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5454 (3) Quantitative Methods

Introduces the use of digital simulation in the analysis of water resources and environmental systems. Develops computer programs for the simulation of reservoir operations, watershed runoff, stream quality, and lake quality, and uses existing software to analyze more complex problems. Prereq., instructor consent.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5464 (3) Environmental Engineering Processes

Develops and utilizes analytic solutions for environmental process models that can be used in a) reactor design for processes used in the treatment of water, wastewater and hazardous waste and b) process analysis of natural systems, such as streams and groundwater flow. Models facilitate the tracking of contaminants in engineered and natural systems. Prereq. or coreq., CVEN 3414 or equivalent and Fluid Mechanics. CVEN 4464 and 5464 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5474 (3) Hazardous and Industrial Waste Management

Same as CVEN 4474. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5484 (3) Introduction to Environmental Microbiology

Same as CVEN 4484.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5494 (3) Surface Water Quality Modeling

Examines the relationships among air, water, and land pollution, water quality, and beneficial uses. Using models, develops the ability to quantify and predict the impacts of pollutants in the aquatic environment, and to develop approaches to minimize unfavorable water quality conditions. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5511 (3) Introduction to Finite Element Analysis

Prereq., graduate standing. Same as Cven 4511. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-5514 (3) Bioremediation

Advanced study on biological processes used to treat toxic organic and inorganic compounds contained in contaminated water, air, and soil; design and evaluation of in situ toxic compound biotransformation; fundamentals of phytoremediation; critical reviews of current literature on bioremediation. Prereq., CVEN 4484 or 5484 or instructor consent. Recommended prereq., CVEN 5424.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5524 (3) Drinking Water Treatment

Provides advanced study on theory-of-treatment processes, including design and operation of municipal water supplies. Prereq., environmental engineering processes, graduate standing, or instructor consent required.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5525 (3) Analysis of Framed Structures

Same as CVEN 4525. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

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CVEN-5534 (3) Wastewater Treatment

Offers an advanced analysis of wastewater treatment systems; design and operation of treatment process reactors; factors affecting performance of facilities used for physical separation; and chemical and biological conversion of wastewater compounds, including nitrogen and phosphorus. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CVEN-5537 (3) Numerical Methods in Civil Engineering

Prereq., graduate standing. Same as CVEN 4537. Prerequisites: Restricted to Graduate Students only.

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CVEN-5540 (3) Exterior Lighting Systems

Engages students in exploring and solving lighting problems for exterior environments. Provides an understanding of the design criteria and lighting equipment used in three primary exterior applications: parking lots and roadways, floodlighting of buildings, and sports facilities. Prereq., AREN 3540. Recommended prereqs., AREN 3140 and 4550. Same as AREN 4540. Taught intermittently.

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CVEN-5544 (3) Solid Waste Management and Resource Recovery

Covers the scope of the nonhazardous solid waste problem and regulations that drive its management; discussions of nonengineering factors that impact waste management and recycling; design of incinerators, composting facilities, and landfills used to treat and dispose of solid waste. Recommended prereq., CVEN 3414.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5554 (3) Fundamentals of Air Quality Management

Introduces engineering methods for the study of air quality. Topics include: indoor air quality, greenhouse gases, dispersion modeling, acidification of lakes, sources apportionment modeling, chemistry of combustion, pollution sources and controls, and human exposure to air pollutants. Same as CVEN 4554.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-5555 (3) Structural Reliability

Explores principles and methods of structural reliability, and formulates bases for design to insure adequate safety and performance of elements and structural systems. Prerequisites: Requires pre-requisite course of CVEN 4525.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5565 (3) Life-Cycle Engineering of Civil Infrastructure Systems

Philosophical and analytical issues for lifetime design and operation of civil systems. Optimization tradeoffs of construction, management, and sustainability. Utility of operation and service, including present-value economic analysis. Decision-making alternatives of safety and performance, including hazards consideration. Recommended prereq., CVEN 3227 or equivalent.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5575 (3) Advanced Topics in Steel Design

Covers steel structure design and analysis. Includes plate girders, moment connections for beams, design of multistory frames, and other topics determined by class interest. Prereq., CVEN 4545 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5585 (3) Advanced Topics in Reinforced Concrete Design

Covers design and analysis topics for prestressed concrete and/or reinforced concrete structures. Includes review of the current ACI design code, slabs, prestressed concrete, seismic design, folded plates and shells, finite element analysis, and other topics determined by class interest. Prereq., CVEN 4555 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5628 (3) Seepage and Slopes

Covers fundamental principles of seepage in soils under both saturated and unsaturated conditions and limit equilibrium solution to slope stability problems. The seepage effects on slope stability are analyzed in detail and both conventional slope stability method and the finite element technique are applied to solving the engineering problems. Prereqs., CVEN 3708 and 3718 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5678 (3) Soil Improvement and Reinforcement

Provides students with principles and working knowledge of design and construction procedures in soil stabilization, retaining structures, geosynthetics, and soil reinforcement. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5688 (3) Environmental Geotechnics

Provides an understanding of the use of geotechnical concepts in the analysis and design of environmental systems. Focus is placed on the evaluation of waste containment facilities. Including relevant saturated, unsaturated, and multiphase flow mechanisms in cover and liner systems. Includes stability analyses for landfills and geosynthetic interface shear strength. Covers relevant aspects of mining geotechnics and remediation technologies of contaminated sites.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5700 (3) Sustainability and the Built Environment

Same as CVEN 4700.

College of Engineering & Applied Science Civil Engineering Building Systems

CVEN-5708 (3) Soil Mechanics

Offers an advanced course in principles of soil mechanics. Coverage includes topics in continuum mechanics; elasticity, viscoelasticity, and plasticity theories applied to soils; the effective stress principle; consolidation; shear strength; critical state concepts; and constitutive, numerical, and centrifuge modeling. Prereq., CVEN 3718. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5718 (3) Mechanics and Dynamics of Glaciers

Same as CVEN 4718.

College of Engineering & Applied Science Civil Engineering Geotechnical

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5728 (3) Foundation Engineering

Same as CVEN 4728. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5738 (3) Applied Geotechnical Analysis

Studies applications of limiting equilibrium and limit plasticity analysis methods to stability problems in geotechnical engineering, such as slopes, lateral earth pressures on retaining structures, and bearing capacities of foundations. Also includes elastic and consolidation analysis of deformations in soil structures. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5748 (3) Design of Earth Structures

Covers theory, design, and construction of earth embankments and waste facilities, including isolation systems. Uses published data, field exploration, and laboratory tests on soils and rock in investigating foundations and construction materials. Involves principles of compaction and settlement, permeability analysis, landslide recognition and control, use of composite clay, and liner systems. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5758 (3) Flow Processes in Soils

Examines fundamental principles of flow through porous media and related engineering problems. Topics include the saturated seepage theory and flow nets; the unsaturated flow theory; suction-saturation and saturation-hydraulic conductivity relationships; nonlinear finite strain consolidation and desiccation theory; laboratory and field testing methods for determining material characteristics; and numerical models for flow-related engineering problems. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5768 (3) Introduction to Rock Mechanics

Nature of rocks and rock masses; engineering properties of rock and rock mass; rock mass classifications; planes of weakness; application of rock mechanics to design of rock slopes, underground excavations, and foundations. Prereqs., CVEN 3708 and 3718, or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5788 (3) Computational Modeling in Geotechnical Engineering

Introduces computational modeling for geotechnical engineering applications such as the Discrete Element Method (DEM) for granular materials, nonlinear Finite Element Analysis (FEA) of seepage, coupled soil elastoplastic consolidation, elastoplasticity models for soil and rock, and advanced computational methods for failure in soil and rock. Uses DEM, FEA, and other software programs for analysis. Prereq., CVEN 5708, or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5798 (3) Dynamics of Soils and Foundations

Examines the behavior of soils and foundations subjected to self-excited vibrations and earthquake ground motions. Looks at principles of wave propagation in geologic media; in situ and laboratory determination of engineering properties for dynamic analysis; and applications of these principles and properties in design and analysis of foundations and earth structures subjected to dynamic loading. Prereq., CVEN 5708 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5818 (3) Geotechnical Earthquake Engineering

Familiarizes students with the fundamentals of engineering seismology, soil and structural dynamics, and the modern practice of geotechnical earthquake engineering. Focuses on describing earthquake hazards and methods for seismic analysis and design. Recommended prereq., CVEN 5798. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5822 (3) Geographical Information Systems for Civil and Environmental Systems

Same as CVEN 4822.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

CVEN-5830 (3) Special Topics for Seniors/Grads

Prereq., instructor consent. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Building Systems

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CVEN-5834 (1-3) Special Topics

Prerequisites: Restricted to Graduate Students only.

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CVEN-5835 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

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[Structures](#)

CVEN-5836 (1-3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
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[Construction](#)

CVEN-5837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-5849 (1-3) Independent Study

Available only through approval of graduate advisor. Subject arranged to fit needs of student. May be repeated up to 6 total credit hours.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-5919 (3) Sustainable Community Development 1

Focuses on the fundamental tools necessary to address sustainable community development projects in low-income communities (LICs). Topics include: human development, sustainable development, and presentation of an integrative and participatory framework for development projects in LICs. The framework consists of a combination of development and engineering project management tools. Framework is illustrated through case studies and student-driven team projects. Restricted to senior or graduate students. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-5929 (3) Sustainable Community Development 2

Covers the principles, practices and strategies of appropriate technology as part of an integrated and systems approach to community-based development. Course content areas include technical issues in development, environmental health and communicable disease, appropriate and sustainable technologies with hands-on workshops, and global cooperation in development. Prereq., CVEN 5919. Restricted to seniors and graduate students.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-5939 (3) Sustainable Community Development Field Practicum

Provides a supervised in-field practicum experience in which the student applies theories and concepts learned in Sustainable Community Development I and II (CVEN 5919 and 5929). Prereqs., CVEN 5919 and 5929 or instructor consent. Restricted to students with EDC sub-plan. Prerequisites: Restricted to students with EDC Sub-Plan.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

CVEN-6161 (3) Advanced Mechanics of Materials 2

Fundamentals of continuum mechanics, finite deformations, Lagrangian finite strains, Cauchy and Piola Kirchoff stress tensors, plasticity and thermo-elasticity, elements of damage mechanics, elements of fracture mechanics, rheological and viscoelastic theories, and modern experimental techniques. Recommended prereq., CVEN 5161.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-6323 (3) Urban Stormwater Infrastructure Systems

Evaluation and design of more sustainable urban stormwater infrastructure systems including street inlets, on-line and off-line surface storage and infiltration systems. Integrated design for major, minor, and micro storms to provide flood control and drainage as well as control of pollution from stormwater runoff. Simulation and optimization models will be used.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6333 (3) Introduction to Multi-Scale Variability and Scaling in Hydrology

Provides a foundational physical understanding of channel networks, runoff, precipitation, and evapotranspiration at multiple spatial scales of drainage basins using modern analytical concepts for understanding non-linear phenomena, e.g., fractals, multifractals, statistical scaling, criticality, and renormalization. Prereq., CVEN 3313, 5333, 5454, and an upper-division course in probability, or equivalents.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6383 (3) Flow and Transport through Porous Media

Studies basic physics of flow and transport of water, air, and other fluid mixtures through a porous medium. Course topics are relevant to applications in contaminant hydrology, contaminant transport in aquifers, hazardous waste management, geohydrology, soil physics, and geoenvironmental engineering.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6393 (1) Hydrologic Sciences and Water Resources Engineering Seminar

Provides a broad introduction to a variety of research topics from hydrologic sciences and water resources engineering. Offered as a one-hour weekly seminar by the departmental water faculty, graduate students, and external speakers. Restricted to graduate students in engineering. Prerequisites: Restricted to graduate student Civil (CVEN) Engineering students only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-6404 (3) Advanced Aquatic Chemistry

Examines aquatic equilibria, corrosion, colloid and polymer chemistry, behavior of natural organic matter in engineered systems, and application of personal computers to model aquatic equilibria. Requires a term project. Prereq., CVEN 5402. Offered in the spring every other year. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-6414 (3) Aquatic Surfaces and Particles

Examines the role of surfaces and particles in the fate and transport of contaminants in the aquatic environment. Emphasizes modeling of absorption, dissolution, precipitation, surface-catalyzed reactions, and coagulation and filtration kinetics. Prereqs., CVEN 5404 or GEOL 5280.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-6511 (3) Nonlinear Finite Element Analysis of Solids and Porous Media

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Prereq., PHYS 1110. coreq., APPM1360.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-6525 (3) Nonlinear Analysis of Framed Structures

Motivated by Performance Based Engineering, this course provides students with the proper theoretical underpinnings of nonlinear static and dynamic analysis of framed structures along with, exposure to the corresponding programming techniques in Matlab. First part covers traditional topics related to plasticity; second part focuses on the finite element formulation (with emphasis on flexibility based ones) for geometric and Material nonlinearities; nonlinear pushover and transient analysis of frame structures. Prereq., CVEN 4525/5525 or equivalent; proficiency in Matlab.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-6595 (3) Earthquake Engineering

Analyzes and designs structures for earthquake loadings. Gives attention to earthquake ground motions, attenuation laws, and seismic hazard analysis. Also involves numerical methods for time-domain and frequency-domain analysis, response of linear and nonlinear structures, elastic and inelastic response spectra, construction of design spectra, soil-structure interaction analysis, and seismic design methods and building code requirements. Prereq., CVEN 5111 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-6834 (1-3) Special Topics

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-6940 (1) Master's Degree Candidate

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-7111 (3) Advanced Structural Dynamics

Includes general vibrations of civil engineering structures and their response to various types of time-dependent loads. Prereq., CVEN 5111.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7141 (3) Plates and Shells

Teaches mathematical theories of plate and shell structures and their applications. Involves numerical finite element solutions of plates and shells of various shapes under static and dynamic loadings. Prereq., CVEN 5121 or 7131.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7161 (3) Fracture Mechanics

This course has three parts. The first covers fundamentals through rigorous mathematical formulations of linear and nonlinear elastic fracture mechanics. The second focuses on materials: theoretical strength, metals, granular materials, polymers, and steel. The third covers numerical (finite element) methods in fracture mechanics. Heavy emphasis is placed on project and independent work. Prereq., CVEN 5121.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7206 (1) CEM PhD Seminar

Examines emerging research in construction engineering and management. Students will consider and comment on research methods and designs based on their own work and that of CU faculty and other leading researchers. Aims to make CEM Ph.D students better researchers and evaluators of research methods and processes.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-7511 (3) Computational Mechanics of Solids and Structures

Looks at finite element methodology for geometric and material nonlinearities. Involves incremental formulations and iterative solution strategies for truly finite increments and quasistatic and dynamic applications to large deformation and inelastic problems. Prereqs., CVEN 5511 or 6525.

College of Engineering & Applied Science | Civil Engineering | Mechanics

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CVEN-7565 (3) Inelastic Theory of Structures

Examines inelastic behavior of materials, including calculation of ultimate capacity of perfectly plastic structures by use of upper- and lower-bound theorems. Looks at theories of inelastic action as applied to structural design in steel and concrete and elements of theory of plasticity with applications in ultimate analysis of plates, shells, and continuous bodies. Prereq., CVEN 3505.

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CVEN-7595 (3) Earthquake Engineering

Analysis and design of structures for earthquake loadings. Earthquake ground motions, attenuation laws, and seismic hazard analysis. Numerical methods for time-domain and frequency-domain analysis response of linear and nonlinear structures. Elastic and inelastic response spectra, and construction of design spectra. Soil-structure interaction analysis. Seismic design methods and building code requirements. Prereq., CVEN 5111 or equivalent.

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CVEN-7718 (3) Engineering Properties of Soils

Considers constitutive behavior of cohesive and cohesionless soils including stress-strain, strength, pore water pressure, and volume change behavior under drained and undrained loading conditions. Also includes linear and nonlinear analysis techniques and determination of constitutive properties in the laboratory. Prereq., CVEN 5708 or instructor consent.

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CVEN-7788 (3) Soil Behavior

Topics include soil mineralogy, formation of soils through sedimentary processes and weathering, determination of soil composition, soil water, colloidal phenomena in soils, fabric property relationships, analysis of mechanical behavior including compressibility, strength and deformation, and conduction phenomena in terms of physicochemical principles. Involves applications for stabilization and improvement of soils, and disposal of waste materials. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-8990 (1-10) Doctoral Thesis

A minimum of 30 credit hours is required.

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AREN-4317 (5) Architectural Engineering Design

Provides a capstone experience to AREN students. Students design a modest commercial building and complete an integrated engineering design of the building systems executed for the conceptual, schematic, and design development phases. Students' teams work on structural, mechanical, electrical/lighting, and construction engineering management design. Each stage produce a professional-quality design document. Faculty and industry mentors participate in the teaching and evaluation of designs. Prerequisites: Requires pre-requisite courses of AREN 3010, CVEN 3246, CVEN 3525, and AREN 3540 (all min grade C-). Requires a pre-requisite or co-requisite course of AREN 4570.

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ECEN-1400 (3) Introduction to Digital and Analog Electronics

Introduces fundamental concepts in electrical and computer engineering such as Ohm's Law, capacitors, Leds and 7-segment displays, transformers and rectifiers, digital logic, Fourier decomposition, frequency analysis. Lab work exposes students to commonly used instrumentation. Includes a final project. Skills in wiring, soldering and wire-wrapping are developed. Coreq., APPM 1350.

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ECEN-1500 (3) Sustainable Energy

Explores how energy is created and used in today's society. Through collaborative discussion and hands-on data collection, students will analyze the engineering challenges, fundamental limits, and potential solutions to meeting our energy needs sustainably. Students will learn to analyze numerical data, estimate orders, of magnitude, and apply mathematical methods in their own lives and in the ongoing energy debate. Basic algebra required. Restricted to non-engineering majors. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

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ECEN-1840 (1-6) Independent Study

Provides an opportunity for freshmen to do independent, creative work. Numbered ECEN 1840 through ECEN 1849. Prereq., instructor consent.

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ECEN-2010 (1-5) Special Topics

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ECEN-2020 (1-5) Special Topics

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ECEN-2050 (1-5) Special Topics

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ECEN-2060 (1-5) Special Topics

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ECEN-2250 (3) Introduction to Circuits and Electronics

Introduces linear circuit analysis and design, including extensive use of OP amps. Presents DC networks, including node and mesh analysis with controlled sources. Analysis of RL and RC circuits for both transient and sinusoidal steady-state responses using phasors. Prereq., APPM 1360. Coreq., APPM 2360. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-2260 (3) Circuits as Systems

Continues basic circuit analysis of ECEN 2250: Laplace transform techniques, transfer functions, frequency response, Bode diagrams, resonant circuits, Fourier series expansions, and convolution. Prereq., ECEN 2250. Coreq., Electronics Design Laboratory. Prerequisites: Requires pre-requisite course of ECEN 2250 (minimum grade C-). Restricted to College of Engineering students only.

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ECEN-2703 (3) Discrete Mathematics for Computer Engineers

Emphasizes elements of discrete mathematics appropriate for computer engineering. Topics: logic, proof techniques, algorithms, complexity, relations, and graph theory. Prereqs., ECEN 1030/CSCI 1300 and APPM 1360.

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ECEN-3003 (3-5) Special Topics

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[Computer and Digital Systems](#)

ECEN-3303 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

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ECEN-4013 (1-4) Special Topics

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ECEN-4023 (1-4) Special Topics

Same as ECEN 5023.

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ECEN-4053 (1-4) Special Topics

Same as ECEN 5053.

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ECEN-4423 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, ECEN 1030 or CSCI 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 4446 and ECEN 5423.

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ECEN-4553 (3) Compiler Construction

Introduces the principles and techniques for compiling high-level programming languages to assembly code. Topics include parsing, instruction selection, register allocation, and compiling high-level features such as polymorphism, first-class functions, and objects. Students build a complete compiler for a simple language. Prereqs., ECEN 2703 and ECEN 3350. Same as CSCI 4555 and ECEN 5523. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-4583 (3) Software System Development

Lectures deal with techniques for product requirements definition, project planning, coding, verification, validation, performance evaluation, and maintenance of medium-scale (2-3000 line) systems. Primary emphasis is on practical application of these techniques to a specified software project. Students work in teams to produce appropriate documents for each phase and are responsible for project completion according to specification and schedule. Course project is written in C on a Unix look-alike system; prior knowledge of C or Unix is not required. Prereq., CSCI 2270 or instructor consent.

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ECEN-4613 (3) Embedded System Design

Introduces system hardware and firmware design for embedded applications. Students independently design and develop a hardware platform encompassing a microcontroller and peripherals. Firmware is developed in C and assembly. A significant final project is designed, developed, documented, and presented. Prereqs., ECEN 2350 and 3350, or instructor consent. Recommended prereqs., ECEN 3250 and 4593. Same as ECEN 5613. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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ECEN-4623 (3) Real-Time Embedded Systems

Design and build a microprocessor-based embedded system application requiring integration of sensor/actuator devices, a real-time operating system and application firmware and software. Real-time rate monotonic theory and embedded architecture are covered. Prereq., ECEN 2350 and ECEN 3350, or instructor consent. Recommended prereq., ECEN 4613. Same as ECEN 5623. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4633 (3) Hybrid Embedded Systems

Introduces system hardware and design techniques for embedded and hybrid reconfigurable systems. Intended for those interested in developing projects using hardware description languages to build application-specific computing systems. Industry standards are used for design, development, and debugging. Prereqs., ECEN 2350, 3350, and 4593, or equivalent. Same as ECEN 5633. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4643 (3) SW Engineering of Concurrent Systems

Addresses engineering of applications requiring multiple software processes running concurrently, sharing data, and communicating as a system in a single environment. Topics include performance analysis of architecture design; analysis of requirements, design and testing of synchronization and communication; the interplay of system design and performance with the impact of memory management, input/output, and file system support. Prereq., ECEN 4583 or 5543. ECEN 4643 and 5643 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4653 (3) Real-Time Digital Media

Learn how to design and build Linux-based real-time system applications for digital media encode/decode and transport. Course focus is on the process as well as fundamentals of designing, coding, and testing Linux-based real-time systems often used in industry for digital media systems. Students use POSIX kernel-mapped threads and drivers to implement real-time digital media solutions. Prereqs., ECEN 1030 or CSCI 1300, and CSCI 3753 or equivalent. Restricted to engineering students. ECEN 4653 and 5653 are the same course.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4743 (3) SW Engineering of Distributed Systems

Addresses engineering of networked applications and self-contained embedded system products involving multiple processors. The fundamental concepts of software engineering are complicated by an application running simultaneously and asynchronously on multiple processors over a network. Topics: specification, analysis, design, and testing of distributed components including concerns of security, synchronization, transaction coordination, data replication, web services, and service oriented architectures. Prereq., ECEN 4583 or 5543 or CSCI 5548. Recommended prereq., ECEN 5643. ECEN 4743 and 5743 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-4753 (3) Computer Performance Modeling

Presents a broad range of system modeling techniques, emphasizing applications to computer systems. Covers stochastic processes, queuing network models, stochastic Petri nets, and simulation (including parallel processing techniques). Prereq., CSCI 3753 or equivalent and second-semester calculus. Recommended prereq., a course in statistics. Same as CSCI 4753, 5753, and ECEN 5753.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5023 (1-4) Special Topics

Same as ECEN 4023.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5053 (1-4) Special Topics

Same as ECEN 4053.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5322 (3) Search Engine & Analysis of High-dimensional Dataset

Provides students with an exposition of the novel algorithmic methods for searching and analyzing big data. The class includes a project: students design a content-based music information retrieval system similar to those used by Gracenote, Shazam, or Pandora. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

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ECEN-5423 (3) Chaotic Dynamics

Same as ECEN 4423 and CSCI 5446.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5503 (3) Computer Systems Design and Architecture

Covers digital logic circuits, assembly language programming, and gate-level computer design and architecture. Also discusses computer arithmetic algorithms, I/O, peripheral device performance, networking, and the Internet. Limited to graduate students. For ECE/CS majors with nontraditional backgrounds.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5523 (3) Compiler Construction

Same as ECEN 4553 and CSCI 5525. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5533 (3) Fundamental Concepts of Programming Languages

Considers concepts common to a variety of programming languages--how they are described (both formally and informally) and how they are implemented. Provides a firm basis for comprehending new languages and gives insight into the relationship between languages and machines. Prereq., CSCI 3155 or instructor consent. Same as CSCI 5535.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5543 (3) Software Engineering of Standalone Programs

Applies engineering principles to phases of software product development, project planning, requirements definition, design, design patterns, validation, and maintenance. Emphasizes practical methods for communicating and verifying definitions and designs--prototyping, inspections, and modeling (primarily UML). Includes relation to embedded systems and object-oriented design. Prereqs., ECEN 1030/CSCI 1300, CSCI 2270, or instructor consent. Same as CSCI 5548. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5553 (3) Parallel Processing

Examines a range of topics involved in using parallel operations to improve computational performance. Discusses parallel architectures, parallel algorithms and parallel programming languages. Architectures covered include vector computers, multiprocessors, network computers, and data flow machines. Prereq., background in computer organization, introduction to programming languages, elementary numerical analysis, ECEN 4593 and CSCI 3656, or instructor consent. Same as CSCI 5551.

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ECEN-2270 (3) Electronics Design Lab

Provides an introduction to analysis, modeling, design, and testing of analog electronic circuits in a practical laboratory setting. The laboratory is centered around a robot platform and includes design, Spice simulations, prototyping and testing of circuits necessary to drive and remote control the robot. Coreq., ECEN 2260. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-2350 (3) Digital Logic

Covers the design and applications of digital logic circuits, including combinational and sequential logic circuits. Laboratory component introduces simulation and synthesis software and hands-on hardware design. Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only. Prereq., ECEN 1030 or CSCI 1300. Prerequisites: Requires pre-requisite course of ECEN 1030 or CSCI 1300 (minimum grade C-). Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

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ECEN-2420 (3) Electronics for Wireless Systems

Explores fundamental principles behind the operation of a radio, including a practical introduction to circuit elements. The course covers the components and operation of a radio (transmitter and receiver) with simple signals. Students learn through demos the practical basic properties of all needed components with an introduction to principles of operation. Prereqs., PHYS 1120, and APPM 1360 or MATH 2300. Restricted to EN majors. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

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ECEN-2703 (3) Discrete Mathematics for Computer Engineers

Emphasizes elements of discrete mathematics appropriate for computer engineering. Topics: logic, proof techniques, algorithms, complexity, relations, and graph theory. Prereqs., ECEN 1030/CSCI 1300 and APPM 1360.

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ECEN-2830 (1-5) Special Topics

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ECEN-2840 (1-6) Independent Study

Offers an opportunity for sophomores to do independent, creative work. Numbered ECEN 2840 through ECEN 2849. Prereq., instructor consent.

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ECEN-3002 (3-5) Special Topics

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ECEN-4002 (1-4) Special Topics

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ECEN-4012 (1-4) Special Topics

[College of Engineering & Applied Science](#)
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[Communications](#)

ECEN-4242 (3) Communication Theory

Covers modern digital and analog communication systems, Fourier analysis of signals and systems, signal transmission, amplitude modulation, angle modulation, digital communication systems, and behavior of communication systems in the presence of noise, including both analog and digital systems. Prereqs., ECEN 3300 and ECEN 3810 or equivalent. Prerequisites: Restricted to College of Engineering majors only.

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[Communications](#)

ECEN-4532 (3) Digital Signal Processing Laboratory

Develops experience in code development, debugging, and testing of real-time digital signal processing algorithms using dedicated hardware. Applications include filtering, signal synthesis, audio special effects, and frequency domain techniques based on the Fast Fourier Transform. Prereq., ECEN 3300. Coreq., ECEN 4632. Same as ECEN 5532.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4593 (3) Computer Organization

Studies computer design at the gate level. Discusses instruction set architecture design, arithmetic and logic unit design, control logic, memory design and caches, simple pipelining, I/O, and peripheral devices. Briefly covers aspects of modern computer architecture, such as multicore processors and cache coherence for these. Prereq., ECEN 2350, and ECEN 3350 or CSCI 2400. Same as CSCI 4593. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4632 (3) Introduction to Digital Filtering

Covers both the analysis and design of FIR and IIR digital filters. Discusses implementations in both software and hardware. Emphasizes use of the FFT as an analysis tool. Includes examples in speech processing, noise canceling, and communications. Prereq., ECEN 3300. Restricted to seniors.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4652 (3) Communication Laboratory

Involves laboratory experiments demonstrating material taught in ECEN 4242. Uses spectrum analysis to study baseband signals and signal processors. Topics include noise, AM, FM, PM, sampling, quantizing/encoding, TDM, FDM, equalizers, and a complete communication system. Prereq. or coreq., ECEN 4242. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5012 (3) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5122 (3) Wireless Local Area Networks

Examines small-scale wireless networks particularly personal and local area networks. Covers licensed and unlicensed spectrum, indoor and small-scale radio propagation, modulation techniques, network topologies, ad hoc and infrastructure networks, protocol design, TCP/IP-wireless interactions, and protocol standards. Prereq., ECEN 3810 or APPM 3570 or MATH 4510. Recommended prereq., TLEN 5430. Same as TLEN 5520.

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ECEN-5532 (3) Digital Signal Processing Laboratory

Same as ECEN 4532.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5612 (3) Noise and Random Processes

Reviews probability theory, convergence and probability bounds, multivariable normal theory, sequences of random variables and stochastic processes, Bernoulli and Poisson processes, wide-sense stationary processes, and correlation functions and power spectra. Also includes linear systems with random inputs and Gauss-Markov processes, first- and second-order properties of Arma processes, and Markov chains. Prereqs., ECEN 3300 and 3810 or MATH 4510. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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ECEN-5622 (3) Information Theory and Coding

Entropy rates of information sources, fundamental limits of data compression, Huffman and arithmetic codes; mutual information, fundamental limits of information transmission over noisy communication channels with/without feedback. Selected topics in information storage, lossy data compression, and network information theory. Prereqs., ECEN 3810 or equivalent, or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5632 (3) Theory and Application of Digital Filtering

Digital signal processing and its applications are of interest to a wide variety of scientists and engineers. The course covers such topics as characterization of linear discrete-time circuits by unit pulse response, transfer functions, and difference equations, use of z-transforms and Fourier analysis, discrete Fourier transform and fast algorithms (FFT), design of finite and infinite impulse response filters, frequency transformations, study of optimized filters for deterministic signals. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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ECEN-5652 (3) Detection and Extraction of Signals from Noise

Introduces detection, estimation, and time series analysis. Topics include hypothesis testing, detection of known form and random signals, least squares parameter estimation, maximum likelihood theory, minimum mean-squared error estimation, Kalman-Wiener filtering, prediction in stationary time series, and modal analysis. Applications include studies in communications, control, and experimental modeling. Prereq., ECEN 5612.

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ECEN-5672 (3) Digital Image Processing

Course objective is to present the fundamental techniques available for image representation and compression (e.g., wavelets), filtering (e.g., Wiener and nonlinear filter), and segmentation (e.g., anisotropic diffusion). Prereq., ECEN 5632 or instructor consent.

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ECEN-5682 (3) Theory and Practice of Error Control Codes

Block and convolutional codes for reliable transmission of digital data over unreliable noisy channels. Algebraic and dsp characterizations of cyclic codes such as Bch/Rs codes. Decoding algorithms for block codes and the Viterbi algorithm. Graph codes and iterative decoding. Prereq., ECEN 3300.

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ECEN-5692 (3) Principles of Digital Communication

Techniques for efficient and reliable transmission of information over bandwidth and power constrained communication channels; digital modulation methods, power spectral density calculations, optimum receiver principles, error rate analysis, channel coding potential in wired/wireless media, trellis coded modulation, and equalization. Prereqs., ECEN 3300 and 5612 or equivalents. Recommended prereqs., ECEN 5622 and 5632.

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ECEN-3004 (3-5) Special Topics

[College of Engineering & Applied Science](#)
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[Electromagnetics](#)

ECEN-4024 (1-4) Special Topics

Same as ECEN 5024.

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ECEN-4224 (3) High Speed Digital Design

Covers fundamentals of high-speed properties of: logic gates, measurement techniques, transmission lines, ground planes and layer stacking, terminations, vias, power systems, connectors, ribbon cables, clock distribution and clock oscillators. Prereq., ECEN 3400. Recommended prereq., ECEN 3410. Same as ECEN 5224.

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ECEN-4324 (3) Fundamentals of Microsystem Packaging

Introduction to the fundamentals of microsystems packaging. This is a seminar style course which surveys topics in microsystem packaging such as: electrical package design, design for reliability,

thermal management, multichip packaging, IC Assembly, sealing and encapsulation, and board assembly. Coreq., ECEN 3410 or instructor consent. Same as ECEN 5324. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-4634 (3) Microwave and RF Laboratory

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Same as ECEN 5634. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-5024 (1-4) Special Topics

Same as ECEN 4024.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-5104 (3) Computer-Aided Microwave Circuit Design

Emphasizes the design of strip-line and microstrip circuits, using a CAD package. Discusses design of impedance transformers, amplifiers, switches, phase-shifters, etc. Assignments include design of typical circuits and their analysis using a microwave circuit analysis program. Laboratory includes measurements using a network analyzer facility on a typical circuit designed and fabricated by students. Prereq., ECEN 3410. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-5114 (3) Waveguides and Transmission Lines

Intermediate course dealing with guided-wave systems at HF, microwave, and optical frequencies. Modern waveguiding structures, including circular metallic waveguides, microstrip transmission lines, and optical waveguides are treated. Additional material may include waveguide losses, excitation of waveguides, microwave network theory, coupled-mode theory, resonators, and pulse propagation in waveguides. Prereq., ECEN 3410.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-5134 (3) Electromagnetic Radiation and Antennas

Covers elementary sources and antennas, cylindrical wire antennas, loop antennas, radiation patterns and antenna gain, aperture sources such as horns and dishes, specialized antennas such as microstrip patches, linear and circular arrays, mutual coupling and ground effects, ray and numerical formulations, transmission formulas, and antenna applications. Prereq., ECEN 3410. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics |
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ECEN-5154 (3) Computational Electromagnetics

Provides a computational study of microwave circuits and antennas, using finite-difference, finite-element, and moment methods. Requires students to develop algorithms, write and execute programs, and prepare reports analyzing results. Circuits include waveguides, microstrip lines, and center-fed dipole antennas. Prereq., ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5224 (3) High Speed Digital Design

Same as ECEN 4224.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5254 (3) Remote Sensing Signals and Systems

Examines passive and active techniques for remote sensing with emphasis on fundamental noise and detection issues from radio to optical frequencies. Emphasis is placed on electromagnetic wave detection, statistical signal and noise analysis, remote sensing system architecture, and hardware for remote sensing systems. Systems studied include radiometers, radars (real and synthetic aperture), interferometers, and lidars. Applications to detection and surveillance, Earth remote sensing, astronomy, and imaging systems are covered. Prereqs., ECEN 3300 and 3400, or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5264 (3) Electromagnetic Absorption, Scattering, and Propagation

Electromagnetic waves in communication, navigation, and remote sensing systems from radio to optical frequencies, including propagation in deterministic and random media. Topics include absorption and refraction by gases, discrete scattering by precipitation, clouds, and aerosols, continuous scattering by refractivity fluctuations, earth-space propagation and Faraday rotation in plasmas, and radiative transfer theory.

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ECEN-5274 (3) Radar Science and Techniques

Studies atmospheric radar fundamentals. Examines scattering by precipitation and atmospheric turbulence; long-wavelength radars and the dynamics of the middle and upper atmosphere; design of meteorological and clear-air radars; profiling tropospheric winds, temperature, and humidity by radar and radiometry; and ionospheric sounding using ionosondes and incoherent-scatter radars. Prereq., ECEN 5254 or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5324 (3) Fundamentals of Microsystem Packaging

Same as ECEN 4324. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5634 (3) Graduate Microwave and RF Laboratory

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Restricted to graduate students. Same as ECEN 4634.

Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-6144 (3) Electromagnetic Boundary Problems

Provides mathematical and physical fundamentals necessary for the systematic analysis of electromagnetic fields problems. Covers basic properties of Maxwell's equations, potentials and jump conditions; scattering and diffraction by canonical structures; Green's functions, integral equations and approximate methods. Requires some maturity in electromagnetics. Prereq., ECEN 5114 or 5134 or instructor consent. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

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ECEN-3002 (3-5) Special Topics

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ECEN-3003 (3-5) Special Topics

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ECEN-3004 (3-5) Special Topics

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ECEN-3010 (3) Circuits and Electronics for Mechanical Engineers

Covers analysis of electrical circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Includes introductory digital electronics and microprocessors/microcontrollers. Prereqs., APPM 2360 and PHYS 1140. Same as MCEN 3017. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors.

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ECEN-3030 (3) Electrical/Electronic Circuits Non-Major

For students not majoring in electrical engineering. Covers analysis of electric circuits by use of Ohm's law; network reduction; super position; node and loop analysis; Thevenin's and Norton's theorems; sinusoidal signals; phasors; power in ac circuits; transient response of simple circuits; operational amplifiers; logic circuits; and flip-flops. Prereq., APPM 2360. Restricted to nonmajors. Same as GEEN 3854. Prerequisites: Electrical/Computer Engineering Majors, Electrical Engineering Majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree Majors are restricted from taking this course.

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ECEN-3070 (3) Edges of Science

Examines the evidence for paranormal phenomena, reasons for skepticism, and physical models that could account for the data. Reviews controversial scientific theories that overcame barriers to acceptance, and how worldviews shift. Considers the scientific method and ways uncontrolled factors might influence experiments. Develops skills in statistical analysis of data. Includes group projects testing for anomalous and parapsychological effects. Not accepted as a technical elective for engineering majors. Prereq., MATH 1011 or equivalent.

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ECEN-3170 (3) Energy Conversion 1

Introduces block diagrams, conventional/renewable energy sources, power electronics, magnetic circuits, transformers and power systems, forces/torques of electric machines. Employs a top-down approach to present applications first and then discuss components. Uses Pspice, Mathematica, Matlab. Prereq., PHYS 1120. Coreq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-3250 (3) Microelectronics

Develops a basic understanding of active semiconductor devices. Focuses on building an understanding of BJT and CMOS devices in both digital and analog application. Prereq., ECEN 2260. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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ECEN-3300 (3) Linear Systems

Characterization of linear and time-invariant systems in time and frequency domains. Continuous time systems are analyzed using differential equations and Laplace and Fourier transforms. Discrete time systems, which can be implemented using a modern digital signal processing framework, use difference equations, z-transforms and discrete time Fourier transforms for their analysis and design. Applications of linear systems include communications, signal processing, and control systems. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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ECEN-3303 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

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ECEN-3320 (3) Semiconductor Devices

Highlights the fundamentals of semiconductor materials and devices. Topics include the electrical and optical properties of semiconductors, the theory of Pn junctions, bipolar and field-effect transistors, and optoelectronic devices. Prereq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-3350 (3) Programming Digital Systems

Covers computer usage in system implementation, central processor capabilities, and managing concurrency. Includes computer architecture, instruction sets, programming, input/output, interrupts, block transfers, semaphores, shared procedures, multiple processors, and memory management. Prereq., ECEN 2350. Formerly ECEN 2120. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

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[General](#)

ECEN-3400 (3) Electromagnetic Fields and Waves

Electromagnetic fields are covered at an introductory level, starting with electrostatics and continuing with DC current, magnetostatics, time-varying magnetic fields, waves on transmission lines, Maxwell's equations and the basics of plane waves. The use of fields in inductors, capacitors, resistors, transformers, and energy and power concepts are studied. Prereqs., APPM 2350, PHYS 1110, and ECEN 2250. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3410 (3) Electromagnetic Waves and Transmission

Covers reflected and transmitted plane waves in layered media, Poynting's theorem of electromagnetic power, two-conductor transmission line theory and practice, Smith chart usage and impedance matching, and elements of antenna theory. Prereq., ECEN 3400. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3810 (3) Introduction to Probability Theory

Covers the fundamentals of probability theory, and treats the random variables and random processes of greatest importance in electrical engineering. Provides a foundation for study of communication theory, control theory, reliability theory, optics, and portfolio analysis. Prereqs., APPM 2350 and 2360. Credit not granted for this course and MATH 4510 or APPM 3570. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3840 (1-6) Independent Study

Offers an opportunity for juniors to do independent, creative work. Numbered ECEN 3840-3849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3930 (6) ECE Co-op Education

Participate in a cooperative education program working with a corporate or government entity. Individual assignments are arranged between the department and the outside employer. This course is offered only through Continuing Education. May be repeated up to 24 credit hours. Prereq., ECEN 2120, 2260, minimum GPA of 2.85 required. Restricted to sophomore, junior and senior EEEN and ECEN majors.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4000 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4001 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered ECEN 4001-4049. Prerequisites vary.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4002 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4006 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4009 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-4011 (1-4) Special Topics

Same as ECEN 5011.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4012 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4013 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4016 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4017 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4018 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-4021 (1-4) Special Topics

Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4023 (1-4) Special Topics

Same as ECEN 5023.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4024 (1-4) Special Topics

Same as ECEN 5024.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-4028 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-4049 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-4053 (1-4) Special Topics

Same as ECEN 5053.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

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Courses

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College/School**Department****Category**

Search by Course Number

Subject**Number**

ECEN-4106 (3) Photonics

Deals with the generation, transmission, modification and detection of light. Applications include fiber optics communications, data storage, sensing, and imaging. Leads to understanding of fundamental physical principles used in the analysis and design of modern photonic systems. Prereqs., ECEN 3400. Coreq., ECEN 3300. Restricted to seniors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [Optics](#)

ECEN-4116 (3) Introduction to Optical Communications

Given data rates, distance, reliability or bit error rates, the information required to specify the type of fiber, the source, the wave length, type of modulation, repeater or optical amplifiers, and detectors will be presented. Prereq., ECEN 3400 or equivalent. Same as TLEN 5480.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [Optics](#)

ECEN-4120 (3) Neural Network Design

Introduces basic (artificial) neural network architectures and learning rules. Emphasizes mathematical analysis of these networks, methods of training them, and application to practical problems such as pattern recognition, signal processing, and control systems. Shows how to construct a network of "Neurons" and train them to serve a useful function. Prereqs., APPM 2360 or MATH 3130, and CSCI 1300 or equivalent. Same as ECEN 5120.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-4138 (3) Control Systems Analysis

Analysis and design of continuous time control systems using classical and state space methods. Laplace transforms, transfer functions and block diagrams. Stability, dynamic response, and steady-state analysis. Analysis and design of control systems using root locus and frequency response methods. Computer aided design and analysis. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only. Prereq., ECEN 3300, background in Laplace transforms, linear algebra, and ordinary differential equations. Same as ECEN 5138. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-4167 (3) Energy Conversion 2

Studies the derivation of the dynamic equations of motion of electromechanical systems, linear and rotary motion machines based on variational principles and basic force laws. Looks at equivalent circuits in abc and dqo coordinates for Ac and Dc machines. Discusses conditions under which an electromagnetic torque can be produced. Applies theory to the most important modes of steady-state and transient operation of electrical energy converters. Prereq., ECEN 3170.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4224 (3) High Speed Digital Design

Covers fundamentals of high-speed properties of: logic gates, measurement techniques, transmission lines, ground planes and layer stacking, terminations, vias, power systems, connectors, ribbon cables, clock distribution and clock oscillators. Prereq., ECEN 3400. Recommended prereq., ECEN 3410. Same as ECEN 5224.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-4242 (3) Communication Theory

Covers modern digital and analog communication systems, Fourier analysis of signals and systems, signal transmission, amplitude modulation, angle modulation, digital communication systems, and behavior of communication systems in the presence of noise, including both analog and digital systems. Prereqs., ECEN 3300 and ECEN 3810 or equivalent. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4324 (3) Fundamentals of Microsystem Packaging

Introduction to the fundamentals of microsystems packaging. This is a seminar style course which surveys topics in microsystem packaging such as: electrical package design, design for reliability, thermal management, multichip packaging, IC Assembly, sealing and encapsulation, and board assembly. Coreq., ECEN 3410 or instructor consent. Same as ECEN 5324. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-4341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better understanding of the distribution of fields inside the body. Risk analysis is also introduced. Prereqs., ECEN 3400 and 3810. Same as ECEN 5341.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4375 (3) Microstructures Laboratory

Offers experience in monolithic silicon integrated circuit fabrication techniques, including Ic layout, pattern compiling and generation, mask making, oxidation, photolithography, diffusion, implantation, metallization, bonding, process analysis, and testing. Includes design project. Prereq., ECEN 3320. Same as ECEN 5375.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-4423 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, ECEN 1030 or CSCI 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 4446 and ECEN 5423.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Focuses on analysis, modeling, design, and testing of electrical energy processing systems in a practical laboratory setting. Studies power electronics converters for efficient utilization of available energy sources, including solar panels and utility. The experimental projects involve design, fabrication, and testing of a solar power system. Prereq., ECEN 4797. Restricted to seniors. Same as ECEN 5517.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4532 (3) Digital Signal Processing Laboratory

Develops experience in code development, debugging, and testing of real-time digital signal processing algorithms using dedicated hardware. Applications include filtering, signal synthesis, audio special effects, and frequency domain techniques based on the Fast Fourier Transform. Prereq., ECEN 3300. Coreq., ECEN 4632. Same as ECEN 5532.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4553 (3) Compiler Construction

Introduces the principles and techniques for compiling high-level programming languages to assembly code. Topics include parsing, instruction selection, register allocation, and compiling high-level features such as polymorphism, first-class functions, and objects. Students build a complete compiler for a simple language. Prereqs., ECEN 2703 and ECEN 3350. Same as CSCI 4555 and ECEN 5523. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-4555 (3) Principles of Energy Systems & Devices

Develops principles underlying electronic, optical and thermal devices, materials and nanostructures for renewable energy. Course provides a foundation in statistical thermodynamics, and uses it to analyze the operation and efficiency limits of devices for photovoltaics, energy storage (batteries & ultra-capacitors), chemical conversion (fuel cells and engines), solid state lighting, heat pumps, cooling, and potentially harvesting zero-point energy from the vacuum. Prereq., ECEN 3810. Prereq. or coreq., PHYS 2130 or 2170 or instructor consent. Same as ECEN 5555.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices |
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ECEN-4583 (3) Software System Development

Lectures deal with techniques for product requirements definition, project planning, coding, verification, validation, performance evaluation, and maintenance of medium-scale (2-3000 line) systems. Primary emphasis is on practical application of these techniques to a specified software project. Students work in teams to produce appropriate documents for each phase and are responsible for project completion according to specification and schedule. Course project is written in C on a Unix look-alike system; prior knowledge of C or Unix is not required. Prereq., CSCI 2270 or instructor consent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-4593 (3) Computer Organization

Studies computer design at the gate level. Discusses instruction set architecture design, arithmetic and logic unit design, control logic, memory design and caches, simple pipelining, I/O, and peripheral devices. Briefly covers aspects of modern computer architecture, such as multicore processors and cache coherence for these. Prereq., ECEN 2350, and ECEN 3350 or CSCI 2400. Same as CSCI 4593. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-4606 (3) Undergraduate Optics Laboratory

Introduces fundamental concepts, techniques, and technology of modern optical and photonic systems. Individual labs cover particular fields of optical technology, including light sources such as lasers and LEDs, interferometers, fiber-optic communications, photodetection, spectrometers, and holography. Practical skills such as how to align an optical system will also be emphasized. Prereq. ECEN 3400. Coreq. ECEN 4106 or equivalent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-4610 (2) Capstone Laboratory Part 1

Hands-on laboratory experience utilizing teams in the systematic proposal, design, integration, and testing of an electronic/computer based system. The result will be the prototype of a stand-alone analog/digital system. Must taken ECEN 4620 to complete the sequence. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Electrical and Computer Engineering (ECEN), Electrical Engineering (EEEN) majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only. Prereqs., ECEN 2260, 2270, 3350, 3360 and 3810. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Electrical and Computer Engineering (ECEN), Electrical Engineering (EEEN) majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-4613 (3) Embedded System Design

Introduces system hardware and firmware design for embedded applications. Students independently design and develop a hardware platform encompassing a microcontroller and peripherals. Firmware is developed in C and assembly. A significant final project is designed, developed, documented, and presented. Prereq., ECEN 2350 and 3350, or instructor consent. Recommended prereqs., ECEN 3250 and 4593. Same as ECEN 5613. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-4616 (3) Optoelectronic System Design

Examines optical components and electro-optic devices with the goal of integrating into well design optoelectronic systems. Sample systems include optical storage, zoom lenses, and telescopes. Prereq. ECEN 3400.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-4620 (3) Capstone Lab, Part 2

Hands-on laboratory experience for teams in the systematic proposal, design, build integration, test, and documentation of an electronic/computer based system. The result will be a reliably operating, stand-alone analog/digital system, with publication quality technical documentation. Prereq., ECEN 4610. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-4623 (3) Real-Time Embedded Systems

Design and build a microprocessor-based embedded system application requiring integration of sensor/actuator devices, a real-time operating system and application firmware and software. Real-time rate monotonic theory and embedded architecture are covered. Prereq., ECEN 2350 and ECEN 3350, or instructor consent. Recommended prereq., ECEN 4613. Same as ECEN 5623. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-4632 (3) Introduction to Digital Filtering

Covers both the analysis and design of FIR and IIR digital filters. Discusses implementations in both software and hardware. Emphasizes use of the FFT as an analysis tool. Includes examples in speech processing, noise canceling, and communications. Prereq., ECEN 3300. Restricted to seniors.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-4633 (3) Hybrid Embedded Systems

Introduces system hardware and design techniques for embedded and hybrid reconfigurable systems. Intended for those interested in developing projects using hardware description languages to build application-specific computing systems. Industry standards are used for design, development, and debugging. Prereqs., ECEN 2350, 3350, and 4593, or equivalent. Same as ECEN 5633. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

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ECEN-4634 (3) Microwave and RF Laboratory

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Same as ECEN 5634. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Electromagnetics](#)

ECEN-4638 (3) Control Systems Laboratory

Provides experience in control system design and analysis, using both real hardware and computer simulation. Covers the entire control system design cycle: modeling the system, synthesizing a controller, conducting simulations, analyzing the design to suggest modifications and improvements, and implementing the design for actual testing. Prereq., ECEN 3300. Coreq., ECEN 4138. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-4643 (3) SW Engineering of Concurrent Systems

Addresses engineering of applications requiring multiple software processes running concurrently, sharing data, and communicating as a system in a single environment. Topics include performance analysis of architecture design; analysis of requirements, design and testing of synchronization and communication; the interplay of system design and performance with the impact of memory management, input/output, and file system support. Prereq., ECEN 4583 or 5543. ECEN 4643 and 5643 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Computer and Digital Systems](#)

ECEN-4652 (3) Communication Laboratory

Involves laboratory experiments demonstrating material taught in ECEN 4242. Uses spectrum analysis to study baseband signals and signal processors. Topics include noise, AM, FM, PM, sampling, quantizing/encoding, TDM, FDM, equalizers, and a complete communication system. Prereq. or coreq., ECEN 4242. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-4653 (3) Real-Time Digital Media

Learn how to design and build Linux-based real-time system applications for digital media encode/decode and transport. Course focus is on the process as well as fundamentals of designing, coding, and testing Linux-based real-time systems often used in industry for digital media systems. Students use POSIX kernel-mapped threads and drivers to implement real-time digital media solutions. Prereqs., ECEN 1030 or CSCI 1300, and CSCI 3753 or equivalent. Restricted to engineering students. ECEN 4653 and 5653 are the same course.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4743 (3) SW Engineering of Distributed Systems

Addresses engineering of networked applications and self-contained embedded system products involving multiple processors. The fundamental concepts of software engineering are complicated by an application running simultaneously and asynchronously on multiple processors over a network. Topics: specification, analysis, design, and testing of distributed components including concerns of security, synchronization, transaction coordination, data replication, web services, and service oriented architectures. Prereq., ECEN 4583 or 5543 or CSCI 5548. Recommended prereq., ECEN 5643. ECEN 4743 and 5743 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4753 (3) Computer Performance Modeling

Presents a broad range of system modeling techniques, emphasizing applications to computer systems. Covers stochastic processes, queuing network models, stochastic Petri nets, and simulation (including parallel processing techniques). Prereq., CSCI 3753 or equivalent and second-semester calculus. Recommended prereq., a course in statistics. Same as CSCI 4753, 5753, and ECEN 5753.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4797 (3) Introduction to Power Electronics

An introduction to switched-mode converters. Includes steady-state converter modeling and analysis, switch realization, discontinuous conduction mode, and transformer-isolated converters. Ac modeling of converters using averaged methods, small-signal transfer functions, feedback loop design, and transformer design. Prereq., ECEN 3250. Same as ECEN 5797. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4811 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two standpoints: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ECEN 5811 and ASEN 4216.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-4821 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ECEN 5821 and ASEN 4426/5426.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-4827 (3) Analog IC Design

Covers the fundamentals of transistor-level analog integrated circuit design. Starting with motivations from application circuits, the course develops principles of dc biasing, device models, amplifier stages, frequency response analysis and feedback and compensation techniques for multi-stage operational amplifiers. Prereq., ECEN 3250. Same as ECEN 5827. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Power |
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ECEN-4831 (3) Brains, Minds, and Computers

Provides background for the design of artificially intelligent systems based upon our present knowledge of the human brain. Includes similarities and differences between the brain and computers, robots, and common computer models of brain and mind. Emphasizes the neuron as an information processor, and organization of natural as well as synthetic neural networks. Prereq., ECEN 2260 or 3030, or instructor consent. Same as ECEN 5831, ASEN 4436/5436.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-4840 (1-6) Independent Study

Offers an opportunity for seniors to do independent, creative work. Numbered ECEN 4840-4849. Prereq., instructor consent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | General |
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ECEN-5005 (1-4) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices |
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ECEN-5008 (1-4) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5011 (1-4) Special Topics

Same as ECEN 4011. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5012 (3) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5016 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5018 (1-4) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5021 (1-4) Special Topics

Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5023 (1-4) Special Topics

Same as ECEN 4023.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5024 (1-4) Special Topics

Same as ECEN 4024.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5028 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5032 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5049 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

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ECEN-5053 (1-4) Special Topics

Same as ECEN 4053.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

ECEN-5104 (3) Computer-Aided Microwave Circuit Design

Emphasizes the design of strip-line and microstrip circuits, using a CAD package. Discusses design of impedance transformers, amplifiers, switches, phase-shifters, etc. Assignments include design of typical circuits and their analysis using a microwave circuit analysis program. Laboratory includes measurements using a network analyzer facility on a typical circuit designed and fabricated by students. Prereq., ECEN 3410. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Electromagnetics](#)

ECEN-5107 (3) Electric Power Grid

Examines the electrical grid, including conventional generation, transmission/ distribution, and new renewable generation technologies. Issues including grid stability, the increase in variable generation on the grid, and how the electrical grid will change in the future will be addressed. Intended for students with an engineering background from outside electrical engineering who desire an introduction to the power grid. Prerequisites: Excludes graduate students in Electrical Engineering or Electrical Engineering Concurrent degree plans.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-5114 (3) Waveguides and Transmission Lines

Intermediate course dealing with guided-wave systems at HF, microwave, and optical frequencies. Modern waveguiding structures, including circular metallic waveguides, microstrip transmission lines, and optical waveguides are treated. Additional material may include waveguide losses, excitation of waveguides, microwave network theory, coupled-mode theory, resonators, and pulse propagation in waveguides. Prereq., ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5120 (3) Neural Network Design

Same as ECEN 4120.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5122 (3) Wireless Local Area Networks

Examines small-scale wireless networks particularly personal and local area networks. Covers licensed and unlicensed spectrum, indoor and small-scale radio propagation, modulation techniques, network topologies, ad hoc and infrastructure networks, protocol design, TCP/IP-wireless interactions, and protocol standards. Prereq., ECEN 3810 or APPM 3570 or MATH 4510. Recommended prereq., TLEN 5430. Same as TLEN 5520.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5134 (3) Electromagnetic Radiation and Antennas

Covers elementary sources and antennas, cylindrical wire antennas, loop antennas, radiation patterns and antenna gain, aperture sources such as horns and dishes, specialized antennas such as microstrip patches, linear and circular arrays, mutual coupling and ground effects, ray and numerical formulations, transmission formulas, and antenna applications. Prereq., ECEN 3410. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5138 (3) Control Systems Analysis

Topics covered in ECEN 4138 will be investigated in more depth, require external readings, additional homework will be assigned and the exams will be more difficult. Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only. Prereq., ECEN 3300 or equivalent. Same as ECEN 4138. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5139 (3) Formal Verification of VLSI Systems

Covers two-level and multilevel minimization, optimization via expert systems, algebraic and Boolean decomposition, layout methodologies, state assignment, encoding and minimization, silicon

compilation. Prereqs., ECEN 2703 and general proficiency in discrete mathematics and programming.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-5154 (3) Computational Electromagnetics

Provides a computational study of microwave circuits and antennas, using finite-difference, finite-element, and moment methods. Requires students to develop algorithms, write and execute programs, and prepare reports analyzing results. Circuits include waveguides, microstrip lines, and center-fed dipole antennas. Prereq., ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5156 (3) Physical Optics

Covers the application of Maxwell's equations to optical wave propagation in free space and in media. Topics include polarization, dispersion, geometrical optics, interference, partial coherence, and diffraction. Prereq. ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5166 (3) Guided Wave Optics

Builds up the concepts necessary to understand guided wave optical systems. Topics include slab wave-guides, semiconductor lasers, fiber optics, and integrated optics. Prereqs., ECEN 4645 or 5645, and ECEN 5156.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5224 (3) High Speed Digital Design

Same as ECEN 4224.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5254 (3) Remote Sensing Signals and Systems

Examines passive and active techniques for remote sensing with emphasis on fundamental noise and detection issues from radio to optical frequencies. Emphasis is placed on electromagnetic wave detection, statistical signal and noise analysis, remote sensing system architecture, and hardware for remote sensing systems. Systems studied include radiometers, radars (real and synthetic aperture), interferometers, and lidars. Applications to detection and surveillance, Earth remote sensing, astronomy, and imaging systems are covered. Prereqs., ECEN 3300 and 3400, or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5264 (3) Electromagnetic Absorption, Scattering, and Propagation

Electromagnetic waves in communication, navigation, and remote sensing systems from radio to optical frequencies, including propagation in deterministic and random media. Topics include absorption and refraction by gases, discrete scattering by precipitation, clouds, and aerosols, continuous scattering by refractivity fluctuations, earth-space propagation and Faraday rotation in plasmas, and radiative transfer theory.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5274 (3) Radar Science and Techniques

Studies atmospheric radar fundamentals. Examines scattering by precipitation and atmospheric turbulence; long-wavelength radars and the dynamics of the middle and upper atmosphere; design of meteorological and clear-air radars; profiling tropospheric winds, temperature, and humidity by radar and radiometry; and ionospheric sounding using ionosondes and incoherent-scatter radars. Prereq., ECEN 5254 or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5322 (3) Search Engine & Analysis of High-dimensional Dataset

Provides students with an exposition of the novel algorithmic methods for searching and analyzing big data. The class includes a project: students design a content-based music information retrieval system similar to those used by Gracenote, Shazam, or Pandora. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5324 (3) Fundamentals of Microsystem Packaging

Same as ECEN 4324. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better understanding of the distribution of fields inside the body. Risk analysis is also introduced. Same as ECEN 4341. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5345 (3) Introduction to Solid State Physics

Course provides an introduction to the electronic, photonic and phononic properties of solid state materials and devices. Covers optical constants, free electron gas, plasmons, energy bands, semiconductors and doping, excitons, quantum wells, phonons, and electrooptical effects. The course makes use of quantum mechanical methods. Prereqs., ECEN 3400 and basic quantum

mechanics or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-5355 (3) Principles of Electronic Devices 1

Relates performance and limitations of solid state devices to their structures and technology. Examines semiconductor physics and technology. Includes Pn-junction, Mos, and optoelectronic devices. For both advance circuit and device engineers. Prereq., ECEN 3320 or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-5358 (3) Optimization and Optimal Control

Introduces the theory and practice of optimization and optimal control. Topics include basic theory, nonlinear system trajectories and regulation, function space operators and derivatives, optimality conditions, barrier functionals, and Newton's method in function space. Recommended prereq., ECEN 5448. Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5365 (3) Semiconductor Materials and Devices 1

Includes an introduction to time-independent quantum mechanics and perturbation theory, tunneling, application to quantum-well electronic and optical devices, electrons in a crystalline solid, Bloch's theorem, energy bands and energy gaps, the effective mass approximation, a survey of energy bands forreal crystals: Si, Ge, Gaas, Inp, Algaas, etc., band structure engineering, and the electrical and optical properties of compound semiconductors. Prereq., ECEN 3320 and 5345.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-5375 (3) Microstructures Laboratory

Same as ECEN 4375.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-5418 (3) Automatic Control Systems 1

Coverage of principles of control systems with Multiple Inputs and Multiple Outputs (MIMO). Topics include Mimo state-space theory, applications of the singular value decomposition (SVD), coprime factorization methods, frequency domain topics, and an introduction to H-infinity design. Prereqs., ECEN 3300, 4138, and 5448, or equivalents.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

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Courses

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ECEN-5423 (3) Chaotic Dynamics

Same as ECEN 4423 and CSCI 5446.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Computer and Digital Systems](#)

ECEN-5438 (3) Robot Control

Provides a comprehensive treatment of the mathematical modeling of robot mechanisms and the analysis methods used to design control laws for these mechanisms. Prereqs., ECEN 4138 and PHYS 1110.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-5448 (3) Advanced Linear Systems

Offers a state space approach to analysis and synthesis of linear systems, state transition matrix, controllability and observability, system transformation, minimal realization, and analysis and synthesis of multi-input and multi-output systems. Prereq., ECEN 3300 and 4138. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-5458 (3) Sampled Data and Digital Control Systems

Provides an analysis and synthesis of discrete-time systems. Studies sampling theorem and sampling process characterization, z-transform theory and z-transferfunction, and stability theory. Involves data converters (A/D and D/A), dead-beat design, and digital controller design. Prereq., ECEN 3300 and 4138. Prerequisites: Restricted to Graduate Students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control |
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ECEN-5503 (3) Computer Systems Design and Architecture

Covers digital logic circuits, assembly language programming, and gate-level computer design and architecture. Also discusses computer arithmetic algorithms, I/O, peripheral device performance, networking, and the Internet. Limited to graduate students. For ECE/CS majors with nontraditional backgrounds.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Prereq., ECEN 5797. Same as ECEN 4517.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Power |
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ECEN-5523 (3) Compiler Construction

Same as ECEN 4553 and CSCI 5525. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5532 (3) Digital Signal Processing Laboratory

Same as ECEN 4532.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5533 (3) Fundamental Concepts of Programming Languages

Considers concepts common to a variety of programming languages--how they are described (both formally and informally) and how they are implemented. Provides a firm basis for comprehending new languages and gives insight into the relationship between languages and machines. Prereq., CSCI 3155 or instructor consent. Same as CSCI 5535.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5543 (3) Software Engineering of Standalone Programs

Applies engineering principles to phases of software product development, project planning, requirements definition, design, design patterns, validation, and maintenance. Emphasizes practical methods for communicating and verifying definitions and designs---prototyping, inspections, and modeling (primarily UML). Includes relation to embedded systems and object-oriented design. Prereqs., ECEN 1030/CSCI 1300, CSCI 2270, or instructor consent. Same as CSCI 5548. Prerequisites: Restricted to Graduate Students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5553 (3) Parallel Processing

Examines a range of topics involved in using parallel operations to improve computational performance. Discusses parallel architectures, parallel algorithms and parallel programming languages. Architectures covered include vector computers, multiprocessors, network computers, and data flow machines. Prereq., background in computer organization, introduction to programming languages, elementary numerical analysis, ECEN 4593 and CSCI 3656, or instructor consent. Same as CSCI 5551.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5555 (3) Principles of Energy Systems & Devices

Same as ECEN 4555. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors) or Graduate students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices |
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ECEN-5573 (3) Advanced Operating Systems

Same as CSCI 5573.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5583 (3) Artificial Intelligence

Prereq., CSCI 3245 or equivalent. Same as CSCI 5582.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5593 (3) Advanced Computer Architecture

Provides a broad-scope treatment of important concepts in the design and implementation of high-performance computer systems. Discusses important issues in the pipelining of a processor, out-of-order instruction issue and superscalar designs, design of cache memory systems for such systems, and architectural features required for multicore processor designs. Also studies current and historically important computer architectures. Prereq., ECEN 4593 or instructor consent. Same as CSCI 5593. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5603 (3) Software Project Management

Presents topics and techniques critical to the management of software product development, including estimating, planning, quality, tracking, reporting, team organization, people management, and legal issues. Gives special attention to problems unique to software projects. Prereqs., ECEN 4583, 5543, and CSCI 4318, or equivalent industrial experience. Same as CSCI 5608 and EMEN 5031. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5606 (3) Optics Laboratory

Provides advanced training in experimental optics. Consists of optics experiments that introduce the techniques and devices essential to modern optics, including characterization of sources, photodetectors, modulators, use of interferometers, spectrometers, and holograms, and experimentation of fiber optics and Fourier optics. Prereq., undergraduate optics course such as PHYS 4510. Same as PHYS 5606.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5612 (3) Noise and Random Processes

Reviews probability theory, convergence and probability bounds, multivariable normal theory, sequences of random variables and stochastic processes, Bernoulli and Poisson processes, wide-sense stationary processes, and correlation functions and power spectra. Also includes linear systems with random inputs and Gauss-Markov processes, first- and second-order properties of Arma processes, and Markov chains. Prereqs., ECEN 3300 and 3810 or MATH 4510. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5613 (3) Embedded System Design

Same as ECEN 4613. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5616 (3) Optoelectric System Design

Same as ECEN 4616. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5622 (3) Information Theory and Coding

Entropy rates of information sources, fundamental limits of data compression, Huffman and arithmetic codes; mutual information, fundamental limits of information transmission over noisy communication channels with/without feedback. Selected topics in information storage, lossy data compression, and network information theory. Prereqs., ECEN 3810 or equivalent, or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5623 (3) Real-Time Embedded Systems

Same as ECEN 4623. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5626 (3) Active Optical Devices

Analysis of active optical devices such as semiconductor laser, detector and flat panel display by clearly defining and interconnecting the fundamental physical mechanism, device design and operating principles and device performance. Recommended prereq., ECEN 5355.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5632 (3) Theory and Application of Digital Filtering

Digital signal processing and its applications are of interest to a wide variety of scientists and engineers. The course covers such topics as characterization of linear discrete-time circuits by unit pulse response, transfer functions, and difference equations, use of z-transforms and Fourier analysis, discrete Fourier transform and fast algorithms (FFT), design of finite and infinite impulse response filters, frequency transformations, study of optimized filters for deterministic signals. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5633 (3) Hybrid Embedded Systems

Same as ECEN 4633. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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Courses

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ECEN-5634 (3) Graduate Microwave and RF Laboratory

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Restricted to graduate students. Same as ECEN 4634.

Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Electromagnetics](#)

ECEN-5643 (3) SW Engineering of Concurrent Systems

Addresses engineering of applications requiring multiple software processes running concurrently, sharing data, and communicating as a system in a single environment. Topics include performance analysis of architecture design; analysis of requirements, design and testing of synchronization and communication; the interplay of system design and performance with the impact of memory management, input/output, and file system support. Prereq., ECEN 4583 or 5543. ECEN 4643 and 5643 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

ECEN-5645 (3) Introduction to Optical Electronics

Introduces lasers, Gaussian optics, modulators, nonlinear optics, optical detectors, and other related devices. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Nanostructures and Devices](#)

ECEN-5652 (3) Detection and Extraction of Signals from Noise

Introduces detection, estimation, and time series analysis. Topics include hypothesis testing, detection of known form and random signals, least squares parameter estimation, maximum likelihood theory, minimum mean-squared error estimation, Kalman-Wiener filtering, prediction in stationary time series, and modal analysis. Applications include studies in communications, control, and experimental modeling. Prereq., ECEN 5612.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5653 (3) Real-Time Digital Media

Learn how to design and build Linux-based real-time system applications for digital media encode/decode and transport. Course focus is on the process as well as fundamentals of designing, coding, and testing Linux-based real-time systems often used in industry for digital media systems. Students use POSIX kernel-mapped threads and drivers to implement real-time digital media solutions. Prereqs., ECEN 1030 or CSCI 1300, and CSCI 3753 or equivalent. Restricted to engineering students. ECEN 4653 and 5653 are the same course.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5672 (3) Digital Image Processing

Course objective is to present the fundamental techniques available for image representation and compression (e.g., wavelets), filtering (e.g., Wiener and nonlinear filter), and segmentation (e.g., anisotropic diffusion). Prereq., ECEN 5632 or instructor consent.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereq., CSCI 5573 or a course in computer networks. Same as CSCI 5673.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5682 (3) Theory and Practice of Error Control Codes

Block and convolutional codes for reliable transmission of digital data over unreliable noisy channels. Algebraic and dsp characterizations of cyclic codes such as Bch/Rs codes. Decoding algorithms for block codes and the Viterbi algorithm. Graph codes and iterative decoding. Prereq., ECEN 3300.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5692 (3) Principles of Digital Communication

Techniques for efficient and reliable transmission of information over bandwidth and power constrained communication channels; digital modulation methods, power spectral density calculations,

optimum receiver principles, error rate analysis, channel coding potential in wired/wireless media, trellis coded modulation, and equalization. Prereqs., ECEN 3300 and 5612 or equivalents. Recommended prereqs., ECEN 5622 and 5632.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ECEN-5696 (3) Fourier Optics

Introduces a system level approach to the analysis and design of optical systems. Topics include holography, Fourier transform properties of lenses, two-dimensional convolution and correlation functions, spatial filtering, and optical computing techniques. Also covers coherent and incoherent imaging techniques, tomography, and synthetic aperture imaging. Prereqs., ECEN 3300 and 3410, or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5737 (3) Adjustable-Speed AC Drives

Presents unified treatment of complete electrical drive systems: mechanical load, electrical machine, power converter, and control equipment. Emphasizes induction, synchronous, and permanent-magnet drives. Uses simulation programs (e.g., SPICE, Finite Element/Difference Program) to simulate drive system components (e.g., gating, inverter, electric machine). Prereq., Ecen 3170.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Power |
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ECEN-5743 (3) SW Engineering of Distributed Systems

Addresses engineering of networked applications and self-contained embedded system products involving multiple processors. The fundamental concepts of software engineering are complicated by an application running simultaneously and asynchronously on multiple processors over a network. Topics: specification, analysis, design, and testing of distributed components including concerns of security, synchronization, transaction coordination, data replication, web services, and service oriented architectures. Prereq., ECEN 4583 or 5543 or CSCI 5548. Recommended prereq., ECEN 5643. ECEN 4743 and 5743 are the same course. Prerequisites: Restricted to Graduate Students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5753 (3) Computer Performance Modeling

Same as ECEN 4753 and CSCI 4753/5753.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems |
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ECEN-5797 (3) Introduction to Power Electronics

Same as ECEN 4797. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Power |
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ECEN-5807 (3) Modeling and Control of Power Electronic Systems

Studies modeling and control topics in power electronics. Averaged switch modeling of converters, computer simulation, ac modeling of the discontinuous conduction mode, the current programmed mode, null-double injection techniques in linear circuits, input filter design, and low-harmonic rectifiers. Prereq., ECEN 5797.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5811 (3) Neural Signals and Functional Brain Imaging

Same as ECEN 4811 and ASEN 4216

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5817 (3) Resonant and Soft-Switching Techniques in Power Electronics

Covers resonant converters and inverters, and soft switching; sinusoidal approximations in analysis of series, parallel, LCC, and other resonant dc-dc and dc-ac converters; state-plane analysis of resonant circuits; switching transitions in hard-switched and soft-switched PWM converters; zero-voltage switching techniques, including resonant, quasi resonant, zero voltage transition, and auxiliary switch circuits. Prereq., ECEN 5797 or instructor consent required.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5821 (3) Neural Systems and Physiological Control

Same as ECEN 4821 and ASEN 4426/5426.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5827 (3) Analog IC Design

Same as ECEN 4827. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5830 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5831 (3) Brains, Minds, and Computers

Same as ECEN 4831, and ASEN 4436/5436. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5837 (3) Mixed-Signal IC Design Lab

Software laboratory course extends the concepts developed in ECEN 4827 to full design and layout of mixed analog and digital custom integrated circuits. Assignments explore implementation of analog to digital and digital to analog converters, and final project develops a full custom IC for a target application. Prereq., ECEN 5827.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the master's level. Numbered ECEN 5840-5849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-6016 (1-3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-6139 (3) Logic Synthesis of VLSI Systems

Studies synthesis and optimization of sequential circuits, including retiming transformations and don't care sequences. Gives attention to hardware description languages and their application to finite state systems. Also includes synthesis for testability and performance, algorithms for test generation, formal verification of sequential systems, and synthesis of asynchronous circuits. Prereqs., ECEN 5139 and CSCI 5454.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods



Courses

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ECEN-6144 (3) Electromagnetic Boundary Problems

Provides mathematical and physical fundamentals necessary for the systematic analysis of electromagnetic fields problems. Covers basic properties of Maxwell's equations, potentials and jump conditions; scattering and diffraction by canonical structures; Green's functions, integral equations and approximate methods. Requires some maturity in electromagnetics. Prereq., ECEN 5114 or 5134 or instructor consent. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Electromagnetics](#)

ECEN-6800 (3) Master of Engineering Report

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

ECEN-6940 (1) Master's Degree Candidate

Numbered ECEN 6940-6949.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[General](#)

ECEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-7438 (3) Theory of Nonlinear Systems

Nonlinear systems and control. Introduction to nonlinear phenomena: multiple equilibria, limit cycles, bifurcations, complex dynamical behavior. Planar dynamical systems, analysis using phase plane techniques. Input-output analysis and stability. Passivity. Lyapunov stability theory. Feedback linearization. Exploration of examples and applications. Prereq., ECEN 5448.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-7840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840-7849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-7849 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840--7849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Electrical & Computer Engineering | General

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ECEN-3320 (3) Semiconductor Devices

Highlights the fundamentals of semiconductor materials and devices. Topics include the electrical and optical properties of semiconductors, the theory of Pn junctions, bipolar and field-effect transistors, and optoelectronic devices. Prereq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

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ECEN-3350 (3) Programming Digital Systems

Covers computer usage in system implementation, central processor capabilities, and managing concurrency. Includes computer architecture, instruction sets, programming, input/output, interrupts, block transfers, semaphores, shared procedures, multiple processors, and memory management. Prereq., ECEN 2350. Formerly ECEN 2120. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

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ECEN-3400 (3) Electromagnetic Fields and Waves

Electromagnetic fields are covered at an introductory level, starting with electrostatics and continuing with DC current, magnetostatics, time-varying magnetic fields, waves on transmission lines, Maxwell's equations and the basics of plane waves. The use of fields in inductors, capacitors, resistors, transformers, and energy and power concepts are studied. Prereqs., APPM 2350, PHYS 1110, and ECEN 2250. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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ECEN-3410 (3) Electromagnetic Waves and Transmission

Covers reflected and transmitted plane waves in layered media, Poynting's theorem of electromagnetic power, two-conductor transmission line theory and practice, Smith chart usage and impedance matching, and elements of antenna theory. Prereq., ECEN 3400. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ECEN-3810 (3) Introduction to Probability Theory

Covers the fundamentals of probability theory, and treats the random variables and random processes of greatest importance in electrical engineering. Provides a foundation for study of communication theory, control theory, reliability theory, optics, and portfolio analysis. Prereqs., APPM 2350 and 2360. Credit not granted for this course and MATH 4510 or APPM 3570. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-3840 (1-6) Independent Study

Offers an opportunity for juniors to do independent, creative work. Numbered ECEN 3840-3849. Prereq., instructor consent.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-3930 (6) ECE Co-op Education

Participate in a cooperative education program working with a corporate or government entity. Individual assignments are arranged between the department and the outside employer. This course is offered only through Continuing Education. May be repeated up to 24 credit hours. Prereq., ECEN 2120, 2260, minimum GPA of 2.85 required. Restricted to sophomore, junior and senior EEEN and ECEN majors.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-4000 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4120 (3) Neural Network Design

Introduces basic (artificial) neural network architectures and learning rules. Emphasizes mathematical analysis of these networks, methods of training them, and application to practical problems such as pattern recognition, signal processing, and control systems. Shows how to construct a network of "Neurons" and train them to serve a useful function. Prereqs., APPM 2360 or MATH 3130, and CSCI 1300 or equivalent. Same as ECEN 5120.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4610 (2) Capstone Laboratory Part 1

Hands-on laboratory experience utilizing teams in the systematic proposal, design, integration, and testing of an electronic/computer based system. The result will be the prototype of a stand-alone analog/digital system. Must taken ECEN 4620 to complete the sequence. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Electrical and Computer Engineering (ECEN), Electrical Engineering (EEEN) majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only. Prereqs., ECEN 2260, 2270, 3350, 3360 and 3810. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Electrical and Computer Engineering (ECEN), Electrical Engineering (EEEN) majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4620 (3) Capstone Lab, Part 2

Hands-on laboratory experience for teams in the systematic proposal, design, build integration, test, and documentation of an electronic/computer based system. The result will be a reliably operating, stand-alone analog/digital system, with publication quality technical documentation. Prereq., ECEN 4610. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4840 (1-6) Independent Study

Offers an opportunity for seniors to do independent, creative work. Numbered ECEN 4840-4849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5107 (3) Electric Power Grid

Examines the electrical grid, including conventional generation, transmission/ distribution, and new renewable generation technologies. Issues including grid stability, the increase in variable generation on the grid, and how the electrical grid will change in the future will be addressed. Intended for students with an engineering background from outside electrical engineering who desire an introduction to the power grid. Prerequisites: Excludes graduate students in Electrical Engineering or Electrical Engineering Concurrent degree plans.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5120 (3) Neural Network Design

Same as ECEN 4120.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5830 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the master's level. Numbered ECEN 5840-5849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-6800 (3) Master of Engineering Report

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-6940 (1) Master's Degree Candidate

Numbered ECEN 6940-6949.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-7840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840-7849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Electrical & Computer Engineering | General

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GEEN-1400 (3) Engineering Projects

First-year engineering students work to solve real engineering design problems in interdisciplinary teams. Completed projects are exhibited at an end-of-semester design expo. In lieu of a textbook (available online), each student is expected to contribute up to \$75 towards their design project and poster, and purchase his/her own pair of safety glasses. Restricted to Engineering majors with 75 or fewer cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

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GEEN-1410 (3) Social Innovation and Design for Sustainable Communities

Learn to apply principles of sustainability to designs. Student teams design solutions integrating scientific and social science perspectives. Emphasis is on the design process applied to sustainable solutions to real world problems. Restricted to students in the Williams Village North RAPs. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

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EHON-1500 (1) Honors Reading Group

Faculty led reading seminars, focusing on specific text or texts chosen by the faculty. Special attention will be paid to group formation and the process of collaborative learning. Restricted to Engineering Honors Program (PHEN) students only or instructor consent required. Prerequisites: Restricted to Engineering Honors Program (PEHN) students only.

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GEEN-1500 (2) Introduction to Engineering

Provides an introduction to the engineering profession, to include a focus on the engineering grand challenges of the future, professional and ethical expectations, and an examination of current disciplines specializations. Provides sufficient knowledge of the engineering disciplines necessary to make an informed major choice. Restricted to Engineering Majors with 75 or less cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

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GEEN-1510 (1) Self Management and Leadership Principles 1

Develops group cohesiveness, mutual support, multicultural awareness, and leadership skills. Topics include collaborative learning, motivation, time management and study skills, personal assertiveness, and career awareness. Open to new freshmen and transfer students. Controlled enrollment. Fulfills one credit hour of the Engineering social science requirement. Prerequisites: Restricted to College of Engineering majors only.

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GEEN-1520 (1) Self Management and Leadership Principles 2

Continuation of GEEN 1510. Controlled enrollment. Prereq., GEEN 1510. Prerequisites: Restricted to College of Engineering majors only.

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GEEN-1550 (1) YOU'RE@CU: Undergraduate Career Seminar

Exposes first or second year undergraduate students to engineering research careers through a partner program (YOU'RE@CU), panel discussions with researchers in academics and industry, and exposure to research labs. Restricted to YOU'RE@CU participants. Restricted enrollment; offered pass/fail only.

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GEEN-2050 (3) Engineering Leadership Gateway

Examines concepts of engineering leadership and the essential skills required to become an effective leader. Together students will explore leadership principles, creative and critical thinking, interpersonal skills (e.g. collaboration, conflict resolution, leading in diverse communities), intrapersonal development (e.g. self-appraisal, reflective practice, personal leadership philosophy), organizational competencies (e.g. planning, sustainability, climate), effective communication and ethical decision-making. Instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

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GEEN-2350 (1) Calculus 3 Work Group

Provides problem solving assistance to students enrolled in APPM 2350. This course is conducted in a collaborative learning environment. Student work groups solve calculus problems with the assistance of a facilitator. Grading only under pass/fail option. Prereq., APPM 1360. Coreq., APPM 2350.

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GEEN-3400 (3) Invention and Innovation

Introduction to invention and product innovation with a hands-on approach. Students explore the invention process, hone their engineering design skills, and explore entrepreneurship (patenting, intellectual property, marketing, raising capital). Student teams design, create, and test a potentially commercial product, and exhibit at an end-of-semester design expo. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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GEEN-3851 (3) Statics for Engineers

Examines vector treatment of force systems and their resultants; equilibrium of frames and machines, including internal forces and three-dimensional configurations; static friction; properties of surfaces, including first and second moments; hydrostatics; and minimum potential energy and stability. Prereq., PHYS 1110. Recommended coreq., APPM 2350. Same as CVEN 2121.

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GEEN-3852 (3) Thermodynamics for Engineers

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as MCEN 3012.

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GEEN-3853 (3) Fluid Mechanics for Engineers

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to engineering systems. Prereqs., APPM 2350 or 2360, and GEEN 1300 or CSCI 1300. Same as CHEN 3200.

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GEEN-3930 (6) Engineering Co-op

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program with a university, government agency, or industry. This course is offered only through Continuing Education and may be repeated up to 24 credit hours (four co-op terms). GPA higher than 2.75 is required. GPA higher than 3.00 is strongly recommended.

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EHON-4051 (1) Dimensions of Leadership

Explores the many dimensions of leadership that exceed technical knowledge: the ethical, societal, cultural, interpersonal, and personal. Through seminars, workshops and exposure to leaders, students will reflect upon their engineering education in light of the multifaceted demands of effective leadership and their own personal career goals. Students will take an active role in shaping the course. Prereq., junior standing; honors standing or instructor consent. Repeatable for credit up to 3 credit hours.

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GEEN-4830 (3) Special Topics

May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering and Applied Science BS students or BS/MS Concurrent Degree Students only.

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MCEN-4128 (3) Special Topics

Prereq., MCEN 4025 or equivalent.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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MCEN-4278 (3) Special Topics

Same as MCEN 5268.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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MCEN-5248 (1-3) Special Topics

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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MCEN-5898 (1-4) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848-5898. Prereq., graduate standing.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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MCEN-6228 (3) Special Topics

Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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MCEN-6278 (3) Special Topics

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MCEN-6848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

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MCEN-6898 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

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MCEN-7208 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered MCEN 7208-7298.

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MCEN-8999 (1-10) Doctoral Thesis

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CVEN-4087 (3) Construction Contract Administration

Students will develop a working understanding of the various types of contracts, key contract provisions, how to evaluate contract risk, ethical requirements, and most importantly explore effective contract administration. Construction and engineering contracts are at the core of all project relationships. Through lecture, group dialog and case studies students will develop confidence in their ability to assess, understand and deploy contract administration in a construction setting. Prereq., senior standing in civil or architectural engineering or instructor consent.

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CVEN-4147 (3) Civil Engineering Systems

Theory and application of the principles of engineering economics, and classical and metaheuristic optimization techniques for evaluating problems in civil and environmental engineering. Same as CVEN 5147. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

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CVEN-4537 (3) Numerical Methods in Civil Engineering

Introduces the use of numerical methods in the solution of civil engineering problems, emphasizing obtaining solutions with high-speed electronic computers. Applies methods to all types of civil engineering problems. Prereq., senior standing. Same as CVEN 5537.

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CVEN-4837 (1-3) Special Topics

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CVEN-5147 (3) Civil Engineering Systems

Same as CVEN 4147. Prerequisites: Restricted to Graduate Students only.

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CVEN-5537 (3) Numerical Methods in Civil Engineering

Prereq., graduate standing. Same as CVEN 4537. Prerequisites: Restricted to Graduate Students only.

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CVEN-5837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

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CVEN-5939 (3) Sustainable Community Development Field Practicum

Provides a supervised in-field practicum experience in which the student applies theories and concepts learned in Sustainable Community Development I and II (CVEN 5919 and 5929). Prereqs., CVEN 5919 and 5929 or instructor consent. Restricted to students with EDC sub-plan. Prerequisites: Restricted to students with EDC Sub-Plan.

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SUST-2800 (1-3) Special Topics

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

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[Sustainability by Design RAP](#)

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SUST-2800 (1-3) Special Topics

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

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ECEN-3303 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

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CVEN-3414 (3) Fundamentals of Environmental Engineering

Emphasizes chemical, ecological, and hydrological fundamentals and importance of mass and energy balances in solving environmental engineering problems related to water quality, water and wastewater treatment, air pollution, solid and hazardous waste management, sustainability, and risk assessment. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 1360 (or MATH 2300). Restricted to Civil, Architectural, Environmental, Mechanical or Chemical Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Environmental](#)

CVEN-3424 (3) Water and Wastewater Treatment

Introduces design and operation of facilities for treatment of municipal water supplies and wastewater. Provides an engineering application of physical, chemical, and biological unit processes and operations for removal of impurities and pollutants. Involves an integrated design of whole treatment systems combining process elements. Prereq., CVEN 3414. Prerequisites: Requires pre-requisite course of CVEN 3414 (min grade C-).

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Environmental](#)

CVEN-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Same as ENVS 3434. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351). Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN), Environmental (EVEN) or Architectural Engineering (AREN) majors.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Environmental](#)

CVEN-4404 (3) Water Chemistry

Introduces chemical fundamentals of inorganic aqueous compounds and contaminants in lecture and laboratory. Lecture topics include thermodynamics and kinetics of acids and base reactions, carbonate chemistry, air-water exchange, precipitation, dissolution, complexation, oxidation-reduction, and sorption. Prereqs., CHEN 1211 and CVEN 3414, or CHEM 1111 and 1131 for non-engineers. Restricted to CVEN and EVEN majors only. Formerly CVEN 3454. Prerequisites: Restricted to Civil (CVEN) or Environmental (EVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4414 (1) Water Chemistry Laboratory

Reinforces chemical fundamentals of inorganic aqueous compounds and contaminants from CVEN 4404 Water Chemistry in laboratory experiments and reports. Topics include acids and bases, carbonate chemistry (alkalinity), and other water chemistry characteristics (hardness, dissolved oxygen); precipitation, complexation, and oxidation-reduction reactions; and laboratory techniques and reporting. Prereqs., CHEN 1211 and CVEN 3414 or CHEN 1111 and 1131 for non-engineers. Coreq., CVEN 4404. Restricted to CVEN or EVEN majors only. Prerequisites: Restricted to Civil (CVEN) or Environmental (EVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4424 (3) Environmental Organic Chemistry

Examines the fundamental physical and chemical transformations affecting the fate and transport of organic contaminants in natural and treated waters. Emphasizes quantitative approach to solubility, vapor pressure, air-water exchange, sorption, hydrolysis and redox reactions, and photodegradation. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1271 or CHEM 1371).

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4434 (4) Environmental Engineering Design

Examines the design of facilities for the treatment of municipal water and wastewater, hazardous industrial waste, contaminated environmental sites, and sustainable sanitation in developing countries. Economic, societal, and site specific criteria impacting designs are emphasized. Prereq., CVEN 3414. Restricted to seniors. Prerequisites: Requires pre-requisite course of CVEN 3414 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4464 (3) Environmental Engineering Processes

Develops and utilizes analytic solutions for environmental process models that can be used in a) reactor design for processes used in the treatment of water, wastewater and hazardous waste and b) process analysis of natural systems, such as streams and groundwater flow. Models facilitate the tracking of contaminants in engineered and natural systems. Prereq. or coreq., CVEN 3414 or equivalent and Fluid Mechanics. CVEN 4464 and 5464 are the same course.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4474 (3) Hazardous and Industrial Waste Management

Evaluates processes used for treatment of wastes requiring special handling and disposal: toxic organic chemicals, heavy metals, and acidic, caustic, and radioactive waste material. Discusses techniques for destruction, immobilization, and resource recovery and assessment of environmental impact of treatment process end products. Prereq., CVEN 3414. Same as CVEN 5474. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-4484 (3) Introduction to Environmental Microbiology

Surveys microbiology topics germane to modern civil and environmental engineering. Provides fundamentals needed to understand microbial processes and ecology in engineered and natural systems and reviews applications emphasizing the interface between molecular biology and classical civil engineering. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 2350 (or MATH 2400).

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-4554 (3) Fundamentals of Air Quality Management

Introduces engineering methods for the study of air quality. Topics include: indoor air quality, greenhouse gases, dispersion modeling, acidification of lakes, sources apportionment modeling, chemistry of combustion, pollution sources and controls, and human exposure to air pollutants. Under consideration as requirement for EVEN students in air quality track or concentration course in environmental engineering for undergraduate CVEN students. Prereqs., APPM 2360 (or MATH 3130 and 4430) and CVEN 3313 (or CHEN 3200 or MCEN 3021). Same as CVEN 5554. Prerequisites: Requires pre-requisite courses of APPM 2360 (or MATH 3130 and 4430) and CHEN 3313 (or CHEN 3200 or MCEN 3021).

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-4834 (1-3) Special Topics

Prereq., instructor consent. May be repeated up to 6 total credit hours provided topics are different.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5323 (3) Applied Stream Ecology

Emphasizes the integration of hydrologic, chemical, and biological processes in controlling river, stream, and reservoir ecosystems at several spatial scales. Students apply ecosystem concepts to current environmental and water quality problems and learn field methods in field trips and a team project. Prereqs., general chemistry, physics. Recommended prereqs., hydrology, ecology, or environmental chemistry. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5404 (3) Water Chemistry

Introduces chemical fundamentals governing the chemistry of natural and treated waters in lecture and laboratory. Lecture topics include thermodynamics and kinetics of acids and base reactions, carbonate chemistry, air-water exchange, precipitation, dissolution, complexation, oxidation-reduction, and sorption. Laboratory experiments emphasize lecture concepts with measurements on local waters. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5414 (3) Water Chemistry Laboratory

Uses experimental and analytical laboratory techniques to develop a better understanding of the concepts of aquatic chemistry and to investigate water chemistry in treated and natural water systems. Techniques include titration, spectrophotometry, gas chromatography, other advanced instrumentation, sampling, portable analyses, and basic statistics and experimental design. Course focuses on water chemistry of Boulder Creek and other local waters. Prereq., CVEN 5404 or GEOL 5280. Coreq., CVEN 5424.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5424 (3) Environmental Organic Chemistry

Examines the fundamental physical and chemical transformations affecting the fate and transport of organic contaminants in natural and treated waters. Emphasizes solubility, vapor pressure, air-water exchange, sorption, abiotic and biotic reactions, and photodegradation.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5434 (3) Environmental Engineering Design

Team-based design of facilities or processes for water or wastewater or solid waste treatment or remediation under multiple real-world constraints. Prereq., instructor consent. Recommended prereq., CVEN 5524, 5534, or 5474.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5454 (3) Quantitative Methods

Introduces the use of digital simulation in the analysis of water resources and environmental systems. Develops computer programs for the simulation of reservoir operations, watershed runoff, stream quality, and lake quality, and uses existing software to analyze more complex problems. Prereq., instructor consent.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5464 (3) Environmental Engineering Processes

Develops and utilizes analytic solutions for environmental process models that can be used in a) reactor design for processes used in the treatment of water, wastewater and hazardous waste and b) process analysis of natural systems, such as streams and groundwater flow. Models facilitate the tracking of contaminants in engineered and natural systems. Prereq. or coreq., CVEN 3414 or equivalent and Fluid Mechanics. CVEN 4464 and 5464 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5474 (3) Hazardous and Industrial Waste Management

Same as CVEN 4474. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5484 (3) Introduction to Environmental Microbiology

Same as CVEN 4484.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5494 (3) Surface Water Quality Modeling

Examines the relationships among air, water, and land pollution, water quality, and beneficial uses. Using models, develops the ability to quantify and predict the impacts of pollutants in the aquatic environment, and to develop approaches to minimize unfavorable water quality conditions. Prereq., instructor consent.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5514 (3) Bioremediation

Advanced study on biological processes used to treat toxic organic and inorganic compounds contained in contaminated water, air, and soil; design and evaluation of in situ toxic compound biotransformation; fundamentals of phytoremediation; critical reviews of current literature on bioremediation. Prereq., CVEN 4484 or 5484 or instructor consent. Recommended prereq., CVEN 5424.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5524 (3) Drinking Water Treatment

Provides advanced study on theory-of-treatment processes, including design and operation of municipal water supplies. Prereq., environmental engineering processes, graduate standing, or instructor consent required.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-5534 (3) Wastewater Treatment

Offers an advanced analysis of wastewater treatment systems; design and operation of treatment process reactors; factors affecting performance of facilities used for physical separation; and chemical and biological conversion of wastewater compounds, including nitrogen and phosphorus. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Environmental

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CVEN-3414 (3) Fundamentals of Environmental Engineering

Emphasizes chemical, ecological, and hydrological fundamentals and importance of mass and energy balances in solving environmental engineering problems related to water quality, water and wastewater treatment, air pollution, solid and hazardous waste management, sustainability, and risk assessment. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 1360 (or MATH 2300). Restricted to Civil, Architectural, Environmental, Mechanical or Chemical Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Environmental](#)

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ECEN-4116 (3) Introduction to Optical Communications

Given data rates, distance, reliability or bit error rates, the information required to specify the type of fiber, the source, the wave length, type of modulation, repeater or optical amplifiers, and detectors will be presented. Prereq., ECEN 3400 or equivalent. Same as TLEN 5480.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Optics](#)

MCEN-4117 (3) Anatomy and Physiology for Engineers

Understanding human physiological function from an engineering, specifically mechanical engineering, viewpoint. Introduction to human anatomy and physiology with a focus on learning fundamental concepts and applying engineering (mass transfer, fluid dynamics, mechanics, modeling) analysis. Same as MCEN 5117. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Miscellaneous](#)

ECEN-4120 (3) Neural Network Design

Introduces basic (artificial) neural network architectures and learning rules. Emphasizes mathematical analysis of these networks, methods of training them, and application to practical problems such as pattern recognition, signal processing, and control systems. Shows how to construct a network of "Neurons" and train them to serve a useful function. Prereqs., APPM 2360 or MATH 3130, and CSCI 1300 or equivalent. Same as ECEN 5120.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

MCEN-4120 (3) Engineering Statistics

Focuses on probability and statistics, emphasizing engineering applications. Studies frequency distributions; statistical hypotheses and estimation; nonparametric, linear regression, and correlation; nonlinear and multiple regression; analysis of variance; and quality control. Prereq., APPM 2360.

College of Engineering & Applied Science | Mechanical Engineering | Math

ASEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

CSCI-4123 (3) Network Laboratory

Develops enterprise level design and configuration skills on local area networking via switching and routing, as well as the provisioning of remote data communications across diverse Wan technologies, using the latest available transport and security services. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5460. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

MCEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-4124 (3) Mechanical Behavior of Materials

Addresses the relationship between material structure and the fundamental processes of deformation, yield, and fracture. Examines elements of elasticity theory, introduction to plasticity, and formulation of failure criteria. Studies basic deformation processes in terms of dislocation mechanics and macroscopic mechanical behavior. Takes into consideration the influence of compositional and processing strengthening mechanisms on mechanical properties. Prereqs., MCEN 2024 and 2063.

College of Engineering & Applied Science | Mechanical Engineering | Materials

ASEN-4128 (3) Human Factors in Engineering and Design

Introduces the field of human factors engineering and investigates human psychological, physiological and performance limitations in complex systems and why it is vital for engineers to understand human operational limitations when designing complex systems. Course includes studies of real accidents caused by human error, good and bad designs, latent conditions and accident-producing designs. Goal is an understanding of how to conduct engineering design with consideration of human factors. Prerequisites: Restricted to students with 57-180 credits (Juniors or

Seniors).

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

MCEN-4128 (3) Special Topics

Prereq., MCEN 4025 or equivalent.

College of Engineering & Applied Science Mechanical Engineering Special Topics

CHEN-4130 (2) Chemical Engineering Laboratory 2

Involves planning and execution of chemical engineering experiments on mass transfer operations, separations, and chemical reactors. Interprets experimental data with theoretical principles and statistical analysis. Emphasizes communication with written memos, full reports, and oral presentations. Prerequisites: Requires pre-requisite courses of CHEN 3130, 3220, 3320, 4330 (all min grade C-).

College of Engineering & Applied Science Chemical Engineering

MCEN-4131 (3) Air Pollution Control Engineering

Introduces air quality regulations, meteorology, and modeling; methods for controlling major classes of air pollutants, including particulate matter and oxides of sulfur and nitrogen; and control technology for industrial sources and motor vehicles. Requires interdisciplinary design projects. Prereq., MCEN 3021 or equivalent. Same as MCEN 5131. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Fluids

CSCI-4133 (3) Security Laboratory

Allows students to gain practical experience with network security in a simulated network environment. Topics to be covered include system hardening, firewalls, intrusion detection, vulnerability assessment, and investigation. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5540. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

College of Engineering & Applied Science Computer Science Operating Systems and Hardware

MCEN-4133 (3) Biomechanics of Solids

Considers the mechanical behavior of biological materials and emphasizes the relationship between structural characteristics and macroscopic behavior. Focuses first on the mechanical behavior of microscopic protein and polysaccharide elements and then on larger scale soft and hard tissue structures. Prereqs., MCEN 2024, 2063, and 3021 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-4135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Design

ASEN-4138 (3) Aircraft Design

Two lectures and one lab per week. Examines principles of aircraft configuration and design to meet given performance specifications, taking into account aerodynamic, stability and control, and flying quality considerations, as well as airworthiness regulations. Includes preliminary design of the major elements of an aircraft. Prereq., ASEN 3128. Restricted to ASEN majors. Prerequisites: Requires pre-requisite course of ASEN 3128. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ECEN-4138 (3) Control Systems Analysis

Analysis and design of continuous time control systems using classical and state space methods. Laplace transforms, transfer functions and block diagrams. Stability, dynamic response, and steady-state analysis. Analysis and design of control systems using root locus and frequency response methods. Computer aided design and analysis. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only. Prereq., ECEN 3300, background in Laplace transforms, linear algebra, and ordinary differential equations. Same as ECEN 5138. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Electrical & Computer Engineering Dynamical Systems and Control

MCEN-4141 (3) Indoor Air Pollution

Air pollutants cause material damage and adversely affect human health. People spend over 80 per cent of their time indoors; often, air pollutant levels are higher indoors than outdoors. In this course we study air pollution in indoor environments and design appropriate control technologies. Prereqs., MCEN3021 and 3022. Same as MCEN 5141. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Fluids

CSCI-4143 (2) Principles of Telecommunications Policy

Learn the key issues and principles that guide the decisions of policymakers with respect to the regulatory treatment of voice, video, and data communications. Engage in critical debate, and develop instincts for anticipating the likely regulatory models that may be applied to new technologies. This introductory course covers technical, economic, legal, political, and institutional considerations. Coreq., CSCI 4123 or 4133. Same as TLEN 5210 Prerequisites: Requires pre-requisite or co-requisite course of CSCI 4123 or CSCI 4133 (minimum grade C-).

College of Engineering & Applied Science Computer Science Operating Systems and Hardware

CVEN-4147 (3) Civil Engineering Systems

Theory and application of the principles of engineering economics, and classical and metaheuristic optimization techniques for evaluating problems in civil and environmental engineering. Same as

CVEN 5147. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

MCEN-4151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4152 (3) Introduction to Combustion

Description of the mechanisms by which fuel and oxidizers are converted into combustion products. Application to practical combustion devices such as Otto, Diesel, gas turbine, and power plant combustion systems. Consideration of combustion-generated air pollution, fire safety, and combustion efficiency. Prereq., MCEN 3012. Recommended prereqs., MCEN 3021 and 3022. Same as MCEN 5152.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

CVEN-4161 (3) Mechanics of Materials 2

Covers advanced topics in the mechanics of solids. Some topics such as asymmetric bending of beams, torsion of non-circular cross-sections etc. are extensions of topics seen in CVEN 3161. Others like buckling and plate bending theory are new. The course presents unifying themes that underlie the study of mechanics. The course includes selected laboratory experiments. Prereq., CVEN 3161. Prerequisites: Requires pre-requisite course of CVEN 3161 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Mechanics

MCEN-4162 (3) Energy Conversion

Examines common energy-conversion methods and devices. Topics include power-cycle thermodynamics, turbocompressor and expander processes, combustion systems, and applications and limitations of direct energy-conversion systems. Prereq., MCEN 3012.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

ECEN-4167 (3) Energy Conversion 2

Studies the derivation of the dynamic equations of motion of electromechanical systems, linear and rotary motion machines based on variational principles and basic force laws. Looks at equivalent circuits in abc and dqo coordinates for Ac and Dc machines. Discusses conditions under which an electromagnetic torque can be produced. Applies theory to the most important modes of steady-state and transient operation of electrical energy converters. Prereq., ECEN 3170.

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CVEN-3424 (3) Water and Wastewater Treatment

Introduces design and operation of facilities for treatment of municipal water supplies and wastewater. Provides an engineering application of physical, chemical, and biological unit processes and operations for removal of impurities and pollutants. Involves an integrated design of whole treatment systems combining process elements. Prereq., CVEN 3414. Prerequisites: Requires prerequisite course of CVEN 3414 (min grade C-).

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CVEN-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Same as ENVS 3434. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351). Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN), Environmental (EVEN) or Architectural Engineering (AREN) majors.

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CVEN-3525 (3) Structural Analysis

Studies structural analysis of statically determinate and indeterminate systems, deflections, energy methods, and force method. Prereq., CVEN 3161 or MCEN 2063. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Structures](#)

CVEN-4525 (3) Analysis of Framed Structures

Studies matrix formulation of principles of structural analysis and development of direct stiffness and flexibility methods for analysis of frame and truss structures. Topics include support settlements, thermal loads, and energy formulations of force-displacement relationships. Prereq., CVEN 3525. Same as CVEN 5525.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Structures](#)

CVEN-4545 (3) Steel Design

Applies basic principles to design of steel structures; design of tension members, columns, beams, open-web joists, steel decks, bolts, bolted connections, welding processes, and welded connections. Prereq., CVEN 3525. Prerequisites: Requires pre-requisite course of CVEN 3525 (min grade C-).

[College of Engineering & Applied Science](#)
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CVEN-4555 (3) Reinforced Concrete Design

Focuses on applications to the design of reinforced concrete structures, including design of beams, columns, slabs, and footings; continuous beams and frames; cast-in-place buildings. Prereq., CVEN 3525.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-4565 (3) Timber Design

Applies design methods to beams, columns, trusses, and connections using timber and glued, laminated members. Prerequisites: Requires pre-requisite course of CVEN 3525.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5525 (3) Analysis of Framed Structures

Same as CVEN 4525. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5555 (3) Structural Reliability

Explores principles and methods of structural reliability, and formulates bases for design to insure adequate safety and performance of elements and structural systems. Prerequisites: Requires pre-requisite course of CVEN 4525.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5565 (3) Life-Cycle Engineering of Civil Infrastructure Systems

Philosophical and analytical issues for lifetime design and operation of civil systems. Optimization tradeoffs of construction, management, and sustainability. Utility of operation and service, including present-value economic analysis. Decision-making alternatives of safety and performance, including hazards consideration. Recommended prereq., CVEN 3227 or equivalent.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5575 (3) Advanced Topics in Steel Design

Covers steel structure design and analysis. Includes plate girders, moment connections for beams, design of multistory frames, and other topics determined by class interest. Prereq., CVEN 4545 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5585 (3) Advanced Topics in Reinforced Concrete Design

Covers design and analysis topics for prestressed concrete and/or reinforced concrete structures. Includes review of the current ACI design code, slabs, prestressed concrete, seismic design, folded plates and shells, finite element analysis, and other topics determined by class interest. Prereq., CVEN 4555 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-5835 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-6525 (3) Nonlinear Analysis of Framed Structures

Motivated by Performance Based Engineering, this course provides students with the proper theoretical underpinnings of nonlinear static and dynamic analysis of framed structures along with, exposure to the corresponding programming techniques in Matlab. First part covers traditional topics related to plasticity; second part focuses on the finite element formulation (with emphasis on flexibility based ones) for geometric and Material nonlinearities; nonlinear pushover and transient analysis of frame structures. Prereq., CVEN 4525/5525 or equivalent; proficiency in Matlab.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-6595 (3) Earthquake Engineering

Analyzes and designs structures for earthquake loadings. Gives attention to earthquake ground motions, attenuation laws, and seismic hazard analysis. Also involves numerical methods for time-domain and frequency-domain analysis, response of linear and nonlinear structures, elastic and inelastic response spectra, construction of design spectra, soil-structure interaction analysis, and seismic design methods and building code requirements. Prereq., CVEN 5111 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-7565 (3) Inelastic Theory of Structures

Examines inelastic behavior of materials, including calculation of ultimate capacity of perfectly plastic structures by use of upper- and lower-bound theorems. Looks at theories of inelastic action as applied to structural design in steel and concrete and elements of theory of plasticity with applications in ultimate analysis of plates, shells, and continuous bodies. Prereq., CVEN 3505.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-7595 (3) Earthquake Engineering

Analysis and design of structures for earthquake loadings. Earthquake ground motions, attenuation laws, and seismic hazard analysis. Numerical methods for time-domain and frequency-domain analysis response of linear and nonlinear structures. Elastic and inelastic response spectra, and construction of design spectra. Soil-structure interaction analysis. Seismic design methods and building code requirements. Prereq., CVEN 5111 or equivalent.

College of Engineering & Applied Science | Civil Engineering | Structures

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CVEN-3698 (3) Engineering Geology

Highlights the role of geology in engineering minerals; rocks; surficial deposits; rocks and soils as engineering materials; distribution of rocks at and below the surface; hydrologic influences; geologic exploration of engineering sites; mapping; and geology of underground excavations, slopes, reservoirs, and dam sites. Includes field trips.

[College of Engineering & Applied Science](#)
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[Geotechnical](#)

CVEN-3708 (3) Geotechnical Engineering 1

Studies basic characteristics of geological materials; soil and rock classifications; site investigation; physical, mechanical, and hydraulic properties of geologic materials; the effective stress principle; soil and rock improvement; seepage analysis; stress distribution; and consolidation and settlement analyses. Selected experimental and computational laboratories. Prereq., CVEN 3161 or MCEN 2063. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Geotechnical](#)

CVEN-3718 (3) Geotechnical Engineering 2

Discusses shear strength, bearing capacity, lateral earth pressures, slope stability, and underground construction. Analyzes and looks at the design of shallow and deep foundations, retaining walls, tunnels, and other earth and rock structures. Selected experimental and computational laboratories. Prereq., CVEN 3708. Prerequisites: Requires pre-requisite course of CVEN 3708 (minimum grade C-). Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Geotechnical](#)

CVEN-4718 (3) Mechanics and Dynamics of Glaciers

Focuses on geotechnical design of shallow and deep foundations, including spread footings, mats, driven piles, and drilled piers. Coverage includes bearing capacity, settlement, group effects, and lateral load capacity of the various foundation types. Additional topics include subsurface exploration, construction of deep foundations, and analysis of pile behavior using wave equation and dynamic monitoring methods. Prereqs., CVEN 3718 or instructor consent. Same as CVEN 5728.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-4728 (3) Foundation Engineering

Focuses on geotechnical design of shallow and deep foundations, including spread footings, mats, driven piles, and drilled piers. Coverage includes bearing capacity, settlement, group effects, and lateral load capacity of the various foundation types. Additional topics include subsurface exploration, construction of deep foundations, and analysis of pile behavior using wave equation and dynamic monitoring methods. Prereqs., CVEN 3718 or instructor consent. Same as CVEN 5728.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-4878 (1-3) Independent Study

Involves an independent, in-depth study, research, or design in a selected area of civil or environmental engineering. Offerings are coordinated with individual faculty. Students should consult the Department of Civil, Environmental, and Architectural Engineering. Numbered CVEN 4840 through CVEN 4878.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5628 (3) Seepage and Slopes

Covers fundamental principles of seepage in soils under both saturated and unsaturated conditions and limit equilibrium solution to slope stability problems. The seepage effects on slope stability are analyzed in detail and both conventional slope stability method and the finite element technique are applied to solving the engineering problems. Prereqs., CVEN 3708 and 3718 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5678 (3) Soil Improvement and Reinforcement

Provides students with principles and working knowledge of design and construction procedures in soil stabilization, retaining structures, geosynthetics, and soil reinforcement. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5688 (3) Environmental Geotechnics

Provides an understanding of the use of geotechnical concepts in the analysis and design of environmental systems. Focus is placed on the evaluation of waste containment facilities. Including

relevant saturated, unsaturated, and multiphase flow mechanisms in cover and liner systems. Includes stability analyses for landfills and geosynthetic interface shear strength. Covers relevant aspects of mining geotechnics and remediation technologies of contaminated sites.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5708 (3) Soil Mechanics

Offers an advanced course in principles of soil mechanics. Coverage includes topics in continuum mechanics; elasticity, viscoelasticity, and plasticity theories applied to soils; the effective stress principle; consolidation; shear strength; critical state concepts; and constitutive, numerical, and centrifuge modeling. Prereq., CVEN 3718. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5718 (3) Mechanics and Dynamics of Glaciers

Same as CVEN 4718.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5728 (3) Foundation Engineering

Same as CVEN 4728. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5738 (3) Applied Geotechnical Analysis

Studies applications of limiting equilibrium and limit plasticity analysis methods to stability problems in geotechnical engineering, such as slopes, lateral earth pressures on retaining structures, and bearing capacities of foundations. Also includes elastic and consolidation analysis of deformations in soil structures. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5748 (3) Design of Earth Structures

Covers theory, design, and construction of earth embankments and waste facilities, including isolation systems. Uses published data, field exploration, and laboratory tests on soils and rock in investigating foundations and construction materials. Involves principles of compaction and settlement, permeability analysis, landslide recognition and control, use of composite clay, and liner systems. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-5758 (3) Flow Processes in Soils

Examines fundamental principles of flow through porous media and related engineering problems. Topics include the saturated seepage theory and flow nets; the unsaturated flow theory; suction-saturation and saturation-hydraulic conductivity relationships; nonlinear finite strain consolidation and desiccation theory; laboratory and field testing methods for determining material characteristics; and numerical models for flow-related engineering problems. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5768 (3) Introduction to Rock Mechanics

Nature of rocks and rock masses; engineering properties rock and rock mass; rock mass classifications; planes of weakness; application of rock mechanics to design of rock slopes, underground excavations, and foundations. Prereqs., CVEN 3708 and 3718, or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5788 (3) Computational Modeling in Geotechnical Engineering

Introduces computational modeling for geotechnical engineering applications such as the Discrete Element Method (DEM) for granular materials, nonlinear Finite Element Analysis (FEA) of seepage, coupled soil elastoplastic consolidation, elastoplasticity models for soil and rock, and advanced computational methods for failure in soil and rock. Uses DEM, FEA, and other software programs for analysis. Prereq., CVEN 5708, or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5798 (3) Dynamics of Soils and Foundations

Examines the behavior of soils and foundations subjected to self-excited vibrations and earthquake ground motions. Looks at principles of wave propagation in geologic media; in situ and laboratory determination of engineering properties for dynamic analysis; and applications of these principles and properties in design and analysis of foundations and earth structures subjected to dynamic loading. Prereq., CVEN 5708 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5818 (3) Geotechnical Earthquake Engineering

Familiarizes students with the fundamentals of engineering seismology, soil and structural dynamics, and the modern practice of geotechnical earthquake engineering. Focuses on describing earthquake hazards and methods for seismic analysis and design. Recommended prereq., CVEN 5798. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-7718 (3) Engineering Properties of Soils

Considers constitutive behavior of cohesive and cohesionless soils including stress-strain, strength, pore water pressure, and volume change behavior under drained and undrained loading conditions. Also includes linear and nonlinear analysis techniques and determination of constitutive properties in the laboratory. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CVEN-7788 (3) Soil Behavior

Topics include soil mineralogy, formation of soils through sedimentary processes and weathering, determination of soil composition, soil water, colloidal phenomena in soils, fabric property relationships, analysis of mechanical behavior including compressibility, strength and deformation, and conduction phenomena in terms of physicochemical principles. Involves applications for stabilization and improvement of soils, and disposal of waste materials. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

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CVEN-3525 (3) Structural Analysis

Studies structural analysis of statically determinate and indeterminate systems, deflections, energy methods, and force method. Prereq., CVEN 3161 or MCEN 2063. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Structures](#)

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AREN-3540 (3) Illumination I

Studies the fundamentals of architectural illumination. Introduces and applies basic principles and vocabulary to elementary problems in the lighting of environments for the performance of visual work and the proper interaction with architecture. Prerequisites: Requires pre-requisite courses of GEEN 1300 or CSCI 1300 (min grade C-).

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

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CVEN-3602 (3) Transportation Systems

Introduces technology, operating characteristics, and relative merits of highway, airway, waterway, railroad, pipeline, and convey or transportation systems. Focuses on evaluation of urban transportation systems and recent transportation innovations. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Surveying and Transportation](#)

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CVEN-3698 (3) Engineering Geology

Highlights the role of geology in engineering minerals; rocks; surficial deposits; rocks and soils as engineering materials; distribution of rocks at and below the surface; hydrologic influences; geologic exploration of engineering sites; mapping; and geology of underground excavations, slopes, reservoirs, and dam sites. Includes field trips.

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CVEN-3708 (3) Geotechnical Engineering 1

Studies basic characteristics of geological materials; soil and rock classifications; site investigation; physical, mechanical, and hydraulic properties of geologic materials; the effective stress principle; soil and rock improvement; seepage analysis; stress distribution; and consolidation and settlement analyses. Selected experimental and computational laboratories. Prereq., CVEN 3161 or MCEN 2063. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Geotechnical](#)

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CVEN-3718 (3) Geotechnical Engineering 2

Discusses shear strength, bearing capacity, lateral earth pressures, slope stability, and underground construction. Analyzes and looks at the design of shallow and deep foundations, retaining walls, tunnels, and other earth and rock structures. Selected experimental and computational laboratories. Prereq., CVEN 3708. Prerequisites: Requires pre-requisite course of CVEN 3708 (minimum grade C-). Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Geotechnical](#)

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ECEN-3810 (3) Introduction to Probability Theory

Covers the fundamentals of probability theory, and treats the random variables and random processes of greatest importance in electrical engineering. Provides a foundation for study of communication theory, control theory, reliability theory, optics, and portfolio analysis. Prereqs., APPM 2350 and 2360. Credit not granted for this course and MATH 4510 or APPM 3570. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

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ECEN-3840 (1-6) Independent Study

Offers an opportunity for juniors to do independent, creative work. Numbered ECEN 3840-3849. Prereq., instructor consent.

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MCEN-4173 (3) Finite Element Analysis

Introductory course covering the theory behind and applications of the finite element method as a general and powerful tool to model a variety of phenomena in mechanical engineering. Applications include structural mechanics, mechanics of elastic continua, and heat conduction. Prereq., MCEN 2023 and 2063, or equivalents. Same as MCEN 5173. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

[College of Engineering & Applied Science](#) | [Mechanical Engineering](#) | [Solids](#)

MCEN-4174 (3) Failure of Engineering Materials

Examines the failure of materials used in engineering design through a series of real world case studies. Example failure modes considered include overload, fatigue, creep, and corrosion. Example case studies include failure of aircraft, mountaineering ropes, weight training frames, and toilets. Prereqs., MCEN 2024 and 2063. Same as MCEN 5174.

[College of Engineering & Applied Science](#) | [Mechanical Engineering](#) | [Materials](#)

MCEN-4183 (3) Mechanics of Composite Materials

Introduces various kinds of composite materials, composite fabrication techniques, the physical and mechanical behavior of composites, and analytical and experimental methodologies. Prereqs., MCEN 2024 and 2063, or equivalents. Same as MCEN 5183.

[College of Engineering & Applied Science](#) | [Mechanical Engineering](#) | [Solids](#)

HUEN-4200 (3) Humanities for Engineers 4

Continuation of HUEN 4100. Provides opportunity to pursue a variety of humanistic themes related to Herbst Humanities Program. Prereq., HUEN 4100.

College of Engineering & Applied Science Humanities for Engineers

CSCI-4202 (3) Artificial Intelligence 2

Second course in artificial intelligence. Topics may vary, but typically cover neural networks, natural language processing, and artificial life. Prereq., CSCI 3202 or instructor consent.

College of Engineering & Applied Science Computer Science Artificial Intelligence

MCEN-4208 (3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 4208-4298. Prereq., instructor consent.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

ASEN-4215 (3) Descriptive Physical Oceanography

Introduces descriptive and dynamical physical oceanography, focusing on the nature and dynamics of ocean currents and their role in the distribution of heat and other aspects of ocean physics related to the Earth's climate. Dynamical material limited to mathematical descriptions of oceanic physical systems. Restricted to seniors and graduate students. Same as ASEN 5215 and ATOC 4215. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

College of Engineering & Applied Science Aerospace Engineering Atmospheric, Oceanic & Space S

ASEN-4216 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two stand points: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 5216 and ECEN 4811. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-4218 (3) Large Space Structures Design

Develops the necessary structural analysis skills for conducting conceptual and preliminary designs of large space structures with a practical emphasis on structures considered by NASA over the past 20 years. Applies analysis skills to a broad range of space missions requiring large space structures, emphasizing low cost and practical design. Prereq., senior standing in ASEN or MCEN, or instructor consent. Same as ASEN 5218.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-4222 (3) Materials Science for Composite Manufacturing

Studies common matrix materials and the modifications and improvements of properties which can be achieved by adding second phase reinforcements. Properties will be significantly affected by the design approach and by requirements, and by the procedure of adding reinforcements. Investigates polymer, ceramic and metallic materials. Explores manufacturing, fabrication and processing techniques. Evaluates future developments. Prereq., ASEN 3112 or equivalent, or instructor consent. Coreq., ASEN 4012 or instructor consent. Same as ASEN 5222.

Prerequisites: Requires pre-requisite course of ASEN 3112 and pre-requisite or co-requisite course of ASEN 4012.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ECEN-4224 (3) High Speed Digital Design

Covers fundamentals of high-speed properties of: logic gates, measurement techniques, transmission lines, ground planes and layer stacking, terminations, vias, power systems, connectors, ribbon cables, clock distribution and clock oscillators. Prereq., ECEN 3400. Recommended prereq., ECEN 3410. Same as ECEN 5224.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

MCEN-4228 (1-4) Special Topics

May be repeated up to 15 credit hours. Prereqs., MCEN 2024 and 2063. Same as MCEN 5228. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

CSCI-4229 (3) Computer Graphics

Studies design, analysis, and implementation of computer graphics techniques. Topics include interactive techniques, 2D and 3D viewing, clipping, segmentation, translation, rotation, and projection. Also involves removal of hidden edges, shading, and color. Prereqs., knowledge of basic linear algebra and CSCI 2270. Same as CSCI 5229.

College of Engineering & Applied Science | Computer Science | Graphics

ASEN-4238 (3) Computer-Aided Control Systems Design

Covers Matlab and Simulink software, and multivariable control system synthesis and analysis techniques for typical aerospace control problems. Students formulate control problems and synthesize control functions using line quadratic techniques. Includes numerical integration of differential equations and nonlinear simulation of orbit and attitude dynamics. Prereq., APPM 2360.

College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr

CSCI-4239 (3) Advanced Computer Graphics

Studies design, analysis and implementation of advanced computer graphics techniques. Topics include shaders, using the GPU for high performance computing, graphics programming on embedded devices such as mobile phones; advanced graphics techniques such as ray tracing. Prereq., CSCI 4229 or instructor consent required. Same as CSCI 5239.

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| College of Engineering & Applied Science | Computer Science | Graphics |
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ECEN-4242 (3) Communication Theory

Covers modern digital and analog communication systems, Fourier analysis of signals and systems, signal transmission, amplitude modulation, angle modulation, digital communication systems, and behavior of communication systems in the presence of noise, including both analog and digital systems. Prereqs., ECEN 3300 and ECEN 3810 or equivalent. Prerequisites: Restricted to College of Engineering majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Communications |
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ASEN-4248 (3) Computer-Aided Control System Design 2

Studies theory and engineering applications of Kalman filter techniques. Covers discrete and continuous filters, the extended Kalman filter, and their application to guidance, navigation, and control, including satellite orbit and attitude problems, inertial and control navigation, and the Global Positioning System. Prerequisites: Requires pre-requisite course of ASEN 4238.

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| College of Engineering & Applied Science | Aerospace Engineering | Aerospace Design & System Engr |
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ASEN-4255 (3) Environmental Aerodynamics

a review of the properties and causes of hazards posed by the environment, ranging from atmospheric wind shear to tornadic flows. Involves a multidisciplinary approach combining analytical, numerical, scale modeling studies with extensive field measurements, wind energy, and biophysical aerodynamics. Prereq., senior standing in ASEN. Same as ASEN 5255.

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| College of Engineering & Applied Science | Aerospace Engineering | Atmospheric, Oceanic & Space S |
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CSCI-4273 (3) Network Systems

Focuses on design and implementation of network programs and systems, including topics in network protocols, file transfer, client-server computing, remote procedure call, and other contemporary network system design and programming techniques. Prereqs., CSCI 3753 or equivalent, and familiarity with C and Unix. Same as CSCI 5273.

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| College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware |
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MCEN-4278 (3) Special Topics

Same as MCEN 5268.

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| College of Engineering & Applied Science | Mechanical Engineering | Special Topics |
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CSCI-4302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 5302.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4308 (4) Software Engineering Project 1

Advanced practicum in which students design, implement, document and test software systems for use in industry, non-profits, government and research institutions. Also offers extensive experience in oral and written communication throughout the software lifecycle. Students must take CSCI 4308 and 4318 contiguously, as the project spans the entire academic year. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, Computer Science electives, and WRTG 3030. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Computer Science (CSCI) majors or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-4312 (3) Health Informatics

Teaches students essential skills necessary for developing usable assistive and performance support systems, which include consideration of the academic and professional interdisciplinary issues that govern the work. An overview of ongoing and emerging topics in medical informatics will be presented. Prereq., CSCI 2270. Recommended prereq., CSCI 3002. Same as CSCI 5312.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-4314 (3) Algorithms for Molecular Biology

Surveys combinatorial algorithms used to understand DNA, RNA, and proteins. Introduces students to methods used to process genomic data. Topics covered include a review of algorithms and molecular biology, sequence analysis, RNA and protein structure analysis, and comparative genomics. Students will get hands-on experience processing recent genomic data. Prereqs., CSCI 2270 and CSCI 3104, or CHEM 4711, or MCDB3500 or Iphy 4200. Same as CSCI 5314 and MCDB 4314.

College of Engineering & Applied Science | Computer Science | Theory of Computation

AREN-4315 (3) Design of Masonry Structures

Covers modern masonry construction; properties and behavior of the reinforced masonry component materials, clay and concrete masonry units, mortar, grout, and steel reinforcement; vertical and lateral load types and intensities; and design of reinforced masonry walls, beams, and columns by working stress and strength design methods. Prereq., CVEN 3525.

College of Engineering & Applied Science | Civil Engineering | Structures

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ECEN-3930 (6) ECE Co-op Education

Participate in a cooperative education program working with a corporate or government entity. Individual assignments are arranged between the department and the outside employer. This course is offered only through Continuing Education. May be repeated up to 24 credit hours. Prereq., ECEN 2120, 2260, minimum GPA of 2.85 required. Restricted to sophomore, junior and senior EEEN and ECEN majors.

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ECEN-4001 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered ECEN 4001-4049. Prerequisites vary.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Bioengineering](#)

ECEN-4011 (1-4) Special Topics

Same as ECEN 5011.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Bioengineering](#)

ECEN-4021 (1-4) Special Topics

Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Bioengineering](#)

ECEN-4341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better

understanding of the distribution of fields inside the body. Risk analysis is also introduced. Prereqs., ECEN 3400 and 3810. Same as ECEN 5341.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-4811 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two standpoints: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ECEN 5811 and ASEN 4216.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-4821 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ECEN 5821 and ASEN 4426/5426.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-4831 (3) Brains, Minds, and Computers

Provides background for the design of artificially intelligent systems based upon our present knowledge of the human brain. Includes similarities and differences between the brain and computers, robots, and common computer models of brain and mind. Emphasizes the neuron as an information processor, and organization of natural as well as synthetic neural networks. Prereq., ECEN 2260 or 3030, or instructor consent. Same as ECEN 5831, ASEN 4436/5436.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-5011 (1-4) Special Topics

Same as ECEN 4011. Prerequisites: Restricted to Graduate Students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
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ECEN-5021 (1-4) Special Topics

Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering |
|--|-----------------------------------|----------------|

ECEN-5032 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better understanding of the distribution of fields inside the body. Risk analysis is also introduced. Same as ECEN 4341. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5811 (3) Neural Signals and Functional Brain Imaging

Same as ECEN 4811 and ASEN 4216

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5821 (3) Neural Systems and Physiological Control

Same as ECEN 4821 and ASEN 4426/5426.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5831 (3) Brains, Minds, and Computers

Same as ECEN 4831, and ASEN 4436/5436. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

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ECEN-4006 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4016 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4106 (3) Photonics

Deals with the generation, transmission, modification and detection of light. Applications include fiber optics communications, data storage, sensing, and imaging. Leads to understanding of fundamental physical principles used in the analysis and design of modern photonic systems. Prereq., ECEN 3400. Coreq., ECEN 3300. Restricted to seniors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4116 (3) Introduction to Optical Communications

Given data rates, distance, reliability or bit error rates, the information required to specify the type of fiber, the source, the wave length, type of modulation, repeater or optical amplifiers, and detectors will be presented. Prereq., ECEN 3400 or equivalent. Same as TLEN 5480.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-4606 (3) Undergraduate Optics Laboratory

Introduces fundamental concepts, techniques, and technology of modern optical and photonic systems. Individual labs cover particular fields of optical technology, including light sources such as lasers and LEDs, interferometers, fiber-optic communications, photodetection, spectrometers, and holography. Practical skills such as how to align an optical system will also be emphasized.

Prereq. ECEN 3400. Coreq. ECEN 4106 or equivalent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-4616 (3) Optoelectronic System Design

Examines optical components and electro-optic devices with the goal of integrating into well design optoelectronic systems. Sample systems include optical storage, zoom lenses, and telescopes.

Prereq. ECEN 3400.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5016 (1-4) Special Topics

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5156 (3) Physical Optics

Covers the application of Maxwell's equations to optical wave propagation in free space and in media. Topics include polarization, dispersion, geometrical optics, interference, partial coherence, and diffraction. Prereq. ECEN 3410.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5166 (3) Guided Wave Optics

Builds up the concepts necessary to understand guided wave optical systems. Topics include slab wave-guides, semiconductor lasers, fiber optics, and integrated optics. Prereqs., ECEN 4645 or 5645, and ECEN 5156.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5606 (3) Optics Laboratory

Provides advanced training in experimental optics. Consists of optics experiments that introduce the techniques and devices essential to modern optics, including characterization of sources,

photodetectors, modulators, use of interferometers, spectrometers, and holograms, and experimentation of fiber optics and Fourier optics. Prereq., undergraduate optics course such as PHYS 4510. Same as PHYS 5606.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5616 (3) Optoelectric System Design

Same as ECEN 4616. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5626 (3) Active Optical Devices

Analysis of active optical devices such as semiconductor laser, detector and flat panel display by clearly defining and interconnecting the fundamental physical mechanism, device design and operating principles and device performance. Recommended prereq., ECEN 5355.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-5696 (3) Fourier Optics

Introduces a system level approach to the analysis and design of optical systems. Topics include holography, Fourier transform properties of lenses, two-dimensional convolution and correlation functions, spatial filtering, and optical computing techniques. Also covers coherent and incoherent imaging techniques, tomography, and synthetic aperture imaging. Prereqs., ECEN 3300 and 3410, or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Optics |
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ECEN-6016 (1-3) Special Topics

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ECEN-4009 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-4049 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-5049 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-5139 (3) Formal Verification of VLSI Systems

Covers two-level and multilevel minimization, optimization via expert systems, algebraic and Boolean decomposition, layout methodologies, state assignment, encoding and minimization, silicon compilation. Prereqs., ECEN 2703 and general proficiency in discrete mathematics and programming.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-6139 (3) Logic Synthesis of VLSI Systems

Studies synthesis and optimization of sequential circuits, including retiming transformations and don't care sequences. Gives attention to hardware description languages and their application to finite state systems. Also includes synthesis for testability and performance, algorithms for test generation, formal verification of sequential systems, and synthesis of asynchronous circuits.

Prereqs., ECEN 5139 and CSCI 5454.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-7849 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840--7849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

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ECEN-4000 (3) Special Topics

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ECEN-4001 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered ECEN 4001-4049. Prerequisites vary.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Bioengineering](#)

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ECEN-4002 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Communications](#)

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ECEN-4006 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Optics](#)

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ECEN-4009 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [VLSI CAD Methods](#)

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AREN-4010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Prereq., AREN 4110. Same as CVEN 5010.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

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ECEN-4011 (1-4) Special Topics

Same as ECEN 5011.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Bioengineering](#)

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ECEN-4012 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Communications](#)

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ECEN-4013 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

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Subject**Number**

ECEN-4017 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Power](#)

ECEN-4167 (3) Energy Conversion 2

Studies the derivation of the dynamic equations of motion of electromechanical systems, linear and rotary motion machines based on variational principles and basic force laws. Looks at equivalent circuits in abc and dqo coordinates for Ac and Dc machines. Discusses conditions under which an electromagnetic torque can be produced. Applies theory to the most important modes of steady-state and transient operation of electrical energy converters. Prereq., ECEN 3170.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Power](#)

ECEN-4517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Focuses on analysis, modeling, design, and testing of electrical energy processing systems in a practical laboratory setting. Studies power electronics converters for efficient utilization of available energy sources, including solar panels and utility. The experimental projects involve design, fabrication, and testing of a solar power system. Prereq., ECEN 4797. Restricted to seniors. Same as ECEN 5517.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Power](#)

ECEN-4797 (3) Introduction to Power Electronics

An introduction to switched-mode converters. Includes steady-state converter modeling and analysis, switch realization, discontinuous conduction mode, and transformer-isolated converters. Ac modeling of converters using averaged methods, small-signal transfer functions, feedback loop design, and transformer design. Prereq., ECEN 3250. Same as ECEN 5797. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4827 (3) Analog IC Design

Covers the fundamentals of transistor-level analog integrated circuit design. Starting with motivations from application circuits, the course develops principles of dc biasing, device models, amplifier stages, frequency response analysis and feedback and compensation techniques for multi-stage operational amplifiers. Prereq., ECEN 3250. Same as ECEN 5827. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Prereq., ECEN 5797. Same as ECEN 4517.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5737 (3) Adjustable-Speed AC Drives

Presents unified treatment of complete electrical drive systems: mechanical load, electrical machine, power converter, and control equipment. Emphasizes induction, synchronous, and permanent-magnet drives. Uses simulation programs (e.g., SPICE, Finite Element/Difference Program) to simulate drive system components (e.g., gating, inverter, electric machine). Prereq., Ecen 3170.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5797 (3) Introduction to Power Electronics

Same as ECEN 4797. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5807 (3) Modeling and Control of Power Electronic Systems

Studies modeling and control topics in power electronics. Averaged switch modeling of converters, computer simulation, ac modeling of the discontinuous conduction mode, the current programmed mode, nulldouble injection techniques in linear circuits, input filter design, and low-harmonic rectifiers. Prereq., ECEN 5797.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5817 (3) Resonant and Soft-Switching Techniques in Power Electronics

Covers resonant converters and inverters, and soft switching; sinusoidal approximations in analysis of series, parallel, Lcc, and other resonant dc-dc and dc-ac converters; state-plane analysis of resonant circuits; switching transitions in hard-switched and soft-switched Pwm converters; zero-voltage switching techniques, including resonant, quasi resonant, zero voltage transition, and auxiliary switch circuits. Prereq., ECEN 5797 or instructor consent required.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5827 (3) Analog IC Design

Same as ECEN 4827. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5837 (3) Mixed-Signal IC Design Lab

Software laboratory course extends the concepts developed in ECEN 4827 to full design and layout of mixed analog and digital custom integrated circuits. Assignments explore implementation of analog to digital and digital to analog converters, and final project develops a full custom IC for a target application. Prereq., ECEN 5827.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

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ECEN-4018 (1-4) Special Topics

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-4028 (1-4) Special Topics

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-4138 (3) Control Systems Analysis

Analysis and design of continuous time control systems using classical and state space methods. Laplace transforms, transfer functions and block diagrams. Stability, dynamic response, and steady-state analysis. Analysis and design of control systems using root locus and frequency response methods. Computer aided design and analysis. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only. Prereq., ECEN 3300, background in Laplace transforms, linear algebra, and ordinary differential equations. Same as ECEN 5138.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-4638 (3) Control Systems Laboratory

Provides experience in control system design and analysis, using both real hardware and computer simulation. Covers the entire control system design cycle: modeling the system, synthesizing a controller, conducting simulations, analyzing the design to suggest modifications and improvements, and implementing the design for actual testing. Prereq., ECEN 3300. Coreq., ECEN 4138.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5008 (1-4) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5018 (1-4) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5028 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5138 (3) Control Systems Analysis

Topics covered in ECEN 4138 will be investigated in more depth, require external readings, additional homework will be assigned and the exams will be more difficult. Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only. Prereq., ECEN 3300 or equivalent. Same as ECEN 4138. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5358 (3) Optimization and Optimal Control

Introduces the theory and practice of optimization and optimal control. Topics include basic theory, nonlinear system trajectories and regulation, function space operators and derivatives, optimality conditions, barrier functionals, and Newton's method in function space. Recommended prereq., ECEN 5448. Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5418 (3) Automatic Control Systems 1

Coverage of principles of control systems with Multiple Inputs and Multiple Outputs (MIMO). Topics include MIMO state-space theory, applications of the singular value decomposition (SVD), coprime factorization methods, frequency domain topics, and an introduction to H-infinity design. Prereqs., ECEN 3300, 4138, and 5448, or equivalents.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control |
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ECEN-5438 (3) Robot Control

Provides a comprehensive treatment of the mathematical modeling of robot mechanisms and the analysis methods used to design control laws for these mechanisms. Prereqs., ECEN 4138 and PHYS 1110.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control |
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ECEN-5448 (3) Advanced Linear Systems

Offers a state space approach to analysis and synthesis of linear systems, state transition matrix, controllability and observability, system transformation, minimal realization, and analysis and synthesis of multi-input and multi-output systems. Prereq., ECEN 3300 and 4138. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control |
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ECEN-5458 (3) Sampled Data and Digital Control Systems

Provides an analysis and synthesis of discrete-time systems. Studies sampling theorem and sampling process characterization, z-transform theory and z-transferfunction, and stability theory. Involves data converters (A/D and D/A), dead-beat design, and digital controller design. Prereqs., ECEN 3300 and 4138. Prerequisites: Restricted to Graduate Students only.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control |
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ECEN-7438 (3) Theory of Nonlinear Systems

Nonlinear systems and control. Introduction to nonlinear phenomena: multiple equilibria, limit cycles, bifurcations, complex dynamical behavior. Planar dynamical systems, analysis using phase plane techniques. Input-output analysis and stability. Passivity. Lyapunov stability theory. Feedback linearization. Exploration of examples and applications. Prereq., ECEN 5448.

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| College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control |
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ECEN-4016 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Optics](#)

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ECEN-4017 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Power](#)

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ECEN-4018 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

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ECEN-4021 (1-4) Special Topics

Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Bioengineering](#)

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ECEN-4023 (1-4) Special Topics

Same as ECEN 5023.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

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ECEN-4024 (1-4) Special Topics

Same as ECEN 5024.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Electromagnetics](#)

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AREN-4317 (5) Architectural Engineering Design

Provides a capstone experience to AREN students. Students design a modest commercial building and complete an integrated engineering design of the building systems executed for the conceptual, schematic, and design development phases. Students' teams work on structural, mechanical, electrical/lighting, and construction engineering management design. Each stage produce a professional-quality design document. Faculty and industry mentors participate in the teaching and evaluation of designs. Prerequisites: Requires pre-requisite courses of AREN 3010, CVEN 3246, CVEN 3525, and AREN 3540 (all min grade C-). Requires a pre-requisite or co-requisite course of AREN 4570.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

CSCI-4317 (3) Genome Databases: Mining and Management

Develops essential skills for performing genomic analyses, with focus on developing practical research tools. Introduces human genome and microbiome projects, Python/SQL scripting, accessing and understanding genomic data, sequence alignment and search, evolutionary models, expression data, biological networks, and macromolecular structure. Prereqs., MCDB 3500, CSCI 3104, or CHEM 4711; coreq., CSCI 2270. Same as CSCI 5317. Credit not granted for this course and CHEM 4621 or MCDB 4621.

[College of Engineering & Applied Science](#) [Computer Science](#) [Database Systems](#)

CSCI-4318 (4) Software Engineering Project 2

Second semester of an advanced practicum in computer science. Students must take CSCI 4308 and 4318 contiguously as the project spans the entire academic year. Prereq., CSCI 4308.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CVEN-4323 (3) Water Resource Engineering Design

Design of urban water supply, wastewater, and supply stormwater management system, with demand management as an option. Exploration of the feasibility of recycling and reuse of treated wastewater and stormwater. Prereqs., CVEN 3227 and 4147. Same as CVEN 5423.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

ECEN-4324 (3) Fundamentals of Microsystem Packaging

Introduction to the fundamentals of microsystems packaging. This is a seminar style course which surveys topics in microsystem packaging such as: electrical package design, design for reliability, thermal management, multichip packaging, IC Assembly, sealing and encapsulation, and board assembly. Coreq., ECEN 3410 or instructor consent. Same as ECEN 5324. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

CHEN-4330 (3) Chemical Engineering Reaction Kinetics

Introduces chemical kinetics and chemical reactor design. Involves mass and energy balances for steady-state and transient reactor systems. Also covers residence time distribution, mass transfer, catalytic reactions, and multiple steady states in reactors. Prerequisites: Requires pre-requisite courses of CHEN 3320 and APPM 2360.

College of Engineering & Applied Science | Chemical Engineering

CVEN-4333 (3) Engineering Hydrology

Studies engineering applications of principles of hydrology, including hydrologic cycle, rainfall and runoff, groundwater, storm frequency and duration studies, stream hydrography, flood frequency, and flood routing. Prerequisites: Requires pre-requisite course of CVEN 3313 (or AREN 2120 or CHEN 3200 or GEEN 3853 or MCEN 3021; all min grade C-). Requires co-requisite course of CVEN 3227 (or APPM 4570 or MCEN 3037).

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

ASEN-4338 (3) Computer Analysis of Structures

Covers basic structural design concepts and finite element modeling techniques. Emphasizes use of finite element static and dynamic analysis to validate and refine an initial design. Introduces basic design optimization and tailoring. Proficiency in Matlab required. Prereq., ASEN 3112. Prerequisites: Requires pre-requisite course of ASEN 3112.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ECEN-4341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better understanding of the distribution of fields inside the body. Risk analysis is also introduced. Prereqs., ECEN 3400 and 3810. Same as ECEN 5341.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

CSCI-4342 (3) Groupware and Workflow Systems

Supports students in developing professional skills and knowledge concerning the use of computer technologies to support collaborative activities. Also covers the impact of digital collaboration technologies on users, groups, organizations and society. Students will gain practical experience with Business Process Management and the use of Workflow Management Systems. Same as CSCI 5342.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CVEN-4353 (3) Groundwater Engineering

Studies the occurrence, movement, extraction for use, and quantity and quality aspects of groundwater. Introduces and uses basic concepts to solve engineering and geohydrologic problems. Prereq., Cven 3313. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

ECEN-4375 (3) Microstructures Laboratory

Offers experience in monolithic silicon integrated circuit fabrication techniques, including Ic layout, pattern compiling and generation, mask making, oxidation, photolithography, diffusion, implantation, metallization, bonding, process analysis, and testing. Includes design project. Prereq., ECEN 3320. Same as ECEN 5375.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

CVEN-4383 (3) Groundwater Modeling

Studies mathematical and numerical techniques needed to develop models to solve problems in water flow and chemical transport in aquifers. Emphasizes the learning of modeling techniques from fundamentals and the application of models to solve problems in groundwater engineering. Recommended prereq., CVEN 4353. Same as CVEN 5383.

College of Engineering & Applied Science | Civil Engineering | Fluid Mechanics & Water Resour

CVEN-4404 (3) Water Chemistry

Introduces chemical fundamentals of inorganic aqueous compounds and contaminants in lecture and laboratory. Lecture topics include thermodynamics and kinetics of acids and base reactions, carbonate chemistry, air-water exchange, precipitation, dissolution, complexation, oxidation-reduction, and sorption. Prereqs., CHEN 1211 and CVEN 3414, or CHEM 1111 and 1131 for non-engineers. Restricted to CVEN and EVEN majors only. Formerly CVEN 3454. Prerequisites: Restricted to Civil (CVEN) or Environmental (EVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CSCI-4412 (3) Design, Creativity, and New Media

Explores the design of new media and technologies to support design and creativity. Analyzes design and creativity as human activities of fundamental importance in the networked information

culture and economy. Provides theoretical and practical analysis of new media. Instructor consent required. Recommended prereq., CSCI 3002. Instructor consent required. Same as CSCI 5412.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CVEN-4414 (1) Water Chemistry Laboratory

Reinforces chemical fundamentals of inorganic aqueous compounds and contaminants from CVEN 4404 Water Chemistry in laboratory experiments and reports. Topics include acids and bases, carbonate chemistry (alkalinity), and other water chemistry characteristics (hardness, dissolved oxygen); precipitation, complexation, and oxidation-reduction reactions; and laboratory techniques and reporting. Prereqs., CHEN 1211 and CVEN 3414 or CHEN 1111 and 1131 for non-engineers. Coreq., CVEN 4404. Restricted to CVEN or EVEN majors only. Prerequisites: Restricted to Civil (CVEN) or Environmental (EVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Environmental

AREN-4420 (3) Cost Engineering

Focuses on conceptual cost estimating and evaluation techniques to support engineering design. Topics include assemblies estimating, probabilistic estimating, value engineering, constructability concepts, and life-cycle costing. Prereq., CVEN 3246. Prerequisites: Requires pre-requisite course of CVEN 3246 (min grade C-).

College of Engineering & Applied Science Civil Engineering Construction

ECEN-4423 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, ECEN 1030 or CSCI 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 4446 and ECEN 5423.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

CVEN-4424 (3) Environmental Organic Chemistry

Examines the fundamental physical and chemical transformations affecting the fate and transport of organic contaminants in natural and treated waters. Emphasizes quantitative approach to solubility, vapor pressure, air-water exchange, sorption, hydrolysis and redox reactions, and photodegradation. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1271 or CHEM 1371).

College of Engineering & Applied Science Civil Engineering Environmental

ASEN-4426 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

CVEN-4434 (4) Environmental Engineering Design

Examines the design of facilities for the treatment of municipal water and wastewater, hazardous industrial waste, contaminated environmental sites, and sustainable sanitation in developing countries. Economic, societal, and site specific criteria impacting designs are emphasized. Prereq., CVEN 3414. Restricted to seniors. Prerequisites: Requires pre-requisite course of CVEN 3414 (min grade C-).

College of Engineering & Applied Science Civil Engineering Environmental

ASEN-4436 (3) Brains, Minds, Computers

An introductory, integrative survey of brain science, cognitive science, artificial intelligence, and their interrelations. Considers central concepts and principles from each of these areas and the similarities and difference of brain, minds, computers, robots, etc. Same as ASEN 5436 and ECEN 4831/5831. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

CHEN-4440 (3) Chemical Engineering Materials

Introduces materials engineering, including properties of polymers, metals, ceramics, and semiconductors, especially as related to chemical engineering processes. Prereq., CHEN 3320 and CHEM 3311 (min grade C-).

College of Engineering & Applied Science Chemical Engineering

CSCI-4446 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, CSCI 1200, 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 5446 and ECEN 4423. Prerequisites: Requires pre-requisite course of CSCI 1200 or 1300 and PHYS 1110 (minimum grade C-).

College of Engineering & Applied Science Computer Science Numerical Computation

CSCI-4448 (3) Object-Oriented Analysis and Design

An applied analysis and design class addressing the use of object-oriented techniques. Topics include domain modeling, use cases, architectural design, and modeling notations. Students apply the techniques in analysis and design projects. Prereq., CSCI 3155 or expertise in one or more object-oriented programming languages, such as C++ or Java. Same as CSCI 5448.

College of Engineering & Applied Science Computer Science Software Engineering

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EMEN-4030 (3) Project Management Systems

Acquaints the student with multidisciplinary aspects of project management, including the relationship between schedule, project cost, and performance. Uses qualitative and quantitative tools to facilitate project management skills. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

EMEN-4050 (3) Leadership and Professional Skills

Provides basic concepts of leadership and the essential skills required to become an effective leader/manager. Students will be provided the opportunity for personal development through exercises in communication and leadership effectiveness. Other major topics include leadership styles, managing commitments, change management, negotiation, conflict resolution, organizational culture, emotional intelligence, team dynamics, and business ethics. Restricted to seniors in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

EMEN-4100 (3) Business Methods and Economics for Engineers

Covers cost concepts, financial statements, and the company economic environment. Includes concepts and methods of analysis of the time value of money, comparison of project alternatives before and after taxes, cash flows, replacement analysis, risk management, and financial cash statements. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

EMEN-4800 (3) Technology Ventures and Marketing.

Acquiring basic management and marketing skills is essential to successfully participating in technology venture development whether in a start-up company or Fortune 500 company. In the course, students learn to evaluate a technology, consider its viability as product, and learn the basic tenets of marketing with emphasis on developing a technology innovation into a commercially successful product with a mind on customer development as a key aspect of product development. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Engineering Management

EMEN-4825 (3) Entrepreneurial Business Plan Preparation

Instructs students in the necessary elements of a business plan and how to prepare a complete well-written plan for an entrepreneurial business venture. Students work in interdisciplinary business-engineering five-person teams to create a business concept and take it through to business plan completion. Same as ESBM 4830. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Engineering Management

EMEN-4830 (1-3) Special Topics

College of Engineering & Applied Science Engineering Management

EMEN-5000 (3) Engineering Analysis

Provides an introduction to the logical and systematic thinking required to evaluate and solve typical engineering problems in mechanics, electricity, thermodynamics, fluid mechanics, and light. Emphasizes understanding the physical behavior of systems and applying the principles and laws from the physical sciences to analyze these systems. Required for nonengineers seeking admission to the graduate technology management curriculum track. Not for degree credit. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science Engineering Management

EMEN-5005 (3) Introduction to Applied Statistical Methods

Covers foundations for statistical reasoning and statistical applications. Topics include descriptive statistics, introduction to probability, random variables, discrete and continuous probability distributions, sampling theory and sampling distributions, statistical inference (point and interval estimation and hypothesis testing), and simple regression. All material taught is based upon case studies from business and industry. Restricted to students with 57-180 credits (Junior or Senior) or graduate students only. Not for EMP degree credit. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) or graduate students only.

College of Engineering & Applied Science Engineering Management

EMEN-5010 (3) Introduction to Engineering Management

Provides a general introduction to the principles and methods of technical management covering a variety of topics in leadership, strategic planning, product management, entrepreneurship, finance, value chains, management of R&D, and economic environments. Industry guest speakers provide real-life examples and applications. Required for all degree students. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science Engineering Management

College of Engineering & Applied Science | Engineering Management

EMEN-5020 (3) Finance and Accounting for Engineering Managers

Provides the concepts and skills necessary to financially analyze project and assess financial performance and status of an organization. Includes the time value of money, comparison of alternatives, taxes, risk management, cash flow, and financial cash statements. Required for all degree students. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5025 (3) Entrepreneurial Finance for Engineers

Teaches students to prepare, interpret and use financial information, in the context of startup and early stage enterprises. Includes historical financial statements, budgets and the budgeting process, and the use of financial information in raising capital. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5030 (3) Project Management

Presents the basic skills required to manage a wide range of technical projects. Topics include selecting project alternatives, managing project teams, developing project plan elements, risk management, monitoring and controlling projects, and financial analysis of projects. Skills learned are applied to a representative project. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5031 (3) Software Project Management

Understand unique considerations of the software lifecycle that impact project management. Emphasize configuration management, code reviews, architectural influences, and quality assurance with automated testing. Explore Capability Maturity Model (CMM) and Unified Modeling Language (UML) impact on project success. Recommended prereq., some software development experience. Same as ECEN 5603 and CSCI 5608. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5032 (3) Advanced Topics in Project Management

Covers advanced topics in project management from a systems view based on the Project Management Body of Knowledge (PMBOK); spans the entire project life cycle. Prereq., EMEN 5030 or equivalent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5040 (3) Quality, Strategy, and Value Creation

Introduces business performance excellence (BPE) including history of Quality Sciences, Six Sigma, and Deming's Theory of Profound Knowledge. Addresses use of strategic planning, policy deployment, and Total Asset Utilization to exceed customer requirements and maximize profitability. Addresses topics strategically and tactically through case analysis, field study, and experiential learning. Prereq., EMEN 5005 or equivalent. Non-EMP students require instructor permission. Similar to OPIM 6030. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5041 (3) Advanced Topics in Value Creation

Studies methods designed to maximize excellence in business performance. Advanced study includes interactions with the customers and suppliers, integrated manufacturing, and meeting customer requirements while focusing on maximizing profitability. These characteristics are addressed both strategically and tactically through the use of case analysis, field study, and experiential learning for both the production and service sectors. Prereq., EMEN 5040. Recommended prereq., EMEN 5042. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5042 (3) Methods for Quality Improvement

In-depth investigation of the concepts, tools, and techniques used in the management and measurement of quality and productivity. Topics include basic statistics and probability; process variation; statistical process control charting and capability analysis for process, product, and management systems; and an introduction to design of experiments (DOE) in business and industry. Prereq., EMEN 5040 or instructor consent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5043 (3) Advanced Topics in Quality Systems/ Engineering

Advanced study of methods, tools, techniques, and systems associated with advanced quality applications. Includes a survey of advanced process control technologies, control schemes, and measurement system analysis. Prereq., EMEN 5042. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5050 (3) Leadership

Provides working engineers a background in leadership concepts and methods, and enables students to develop practical skills through numerous exercises. Topics include authentic leadership, increasing human performance and effectiveness, emotional intelligence, managing commitments, conflict resolution, leading change, and organizational culture. Required for all engineering management degree students. Same as TLEN 5050. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5080 (3) Ethical Decision-Making in Engineering Management

Provide students with the ability to recognize ethical issues and dilemmas affecting managers in the workplace; understand various models and practices offering solutions to these issues; and

understand how to create a culture of ethics and integrity in supporting and/or building a profitable, healthy, and responsible organization. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

College of Engineering & Applied Science | Engineering Management

EMEN-5090 (3) Technology Ventures and Marketing

Acquiring marketing know-how is essential for engineers interested in technology and product development. Students learn the basic tenets of marketing with emphasis on developing a technology innovation into a commercially successful product. Special attention given to customer development as a key aspect of product development. Course designed to be of interest to engineers in existing companies and startups. Highlighted will be in-depth discussions of real-world case studies and providing the student with marketing strategies for the high tech environment. Non-EMP students require instructor permission. Restricted to graduate students in Engineering Management Program (EMEN) only. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5300 (3) Management of Research and Development

Provides practical, tested tools to manage research and development in industry and in university and government laboratories. R&D strategies are emphasized, as are innovation and creativity concepts and techniques. R&D portfolio techniques are emphasized and are the basis for a team project. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5400 (3) Product Development

Provides state-of-the-art techniques for improving the identification and creation of new products, services, and brands that provide an exceptional customer experience. Both proven and emerging management techniques in new product management are covered. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5405 (3) Systems Engineering: Requirements

Provides students with an understanding of how to prepare a program for effective and timely specification development and analytical methods for specification development. Management aspects covered include traceability, margins and budgets, requirements validation, specification publishing, and use of database systems. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5410 (3) Systems Engineering: Synthesis

Provides methods for transforming a set of requirements in a series of specifications into a physical reality through product design, material procurement, and manufacturing transforms. The solution is developed through integration and optimization. This is the second course in a three course systems engineering sequence. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

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AREN-4035 (3) Architectural Structures 1

Analyzes basic structural systems. Covers principles of mechanics and mechanical properties of materials and analysis and design of trusses, arches, and cable structures. For nonengineering students; does not apply toward an engineering degree. Prereq., PHYS1110, and APPM 1350 or MATH 1300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Design majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Structures](#)

AREN-4045 (3) Architectural Structures 2

Analyzes basic structural systems. Covers principles of mechanics as applied to the design of flexural members, columns, continuous beams, and rigid frames. For nonengineering students; does not apply toward an engineering degree. Prereq., AREN 4035.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Structures](#)

AREN-4315 (3) Design of Masonry Structures

Covers modern masonry construction; properties and behavior of the reinforced masonry component materials, clay and concrete masonry units, mortar, grout, and steel reinforcement; vertical and lateral load types and intensities; and design of reinforced masonry walls, beams, and columns by working stress and strength design methods. Prereq., CVEN 3525.

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ECEN-4028 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

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EMEN-4030 (3) Project Management Systems

Acquaints the student with multidisciplinary aspects of project management, including the relationship between schedule, project cost, and performance. Uses qualitative and quantitative tools to facilitate project management skills. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

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AREN-4035 (3) Architectural Structures 1

Analyzes basic structural systems. Covers principles of mechanics and mechanical properties of materials and analysis and design of trusses, arches, and cable structures. For nonengineering students; does not apply toward an engineering degree. Prereq., PHYS1110, and APPM 1350 or MATH 1300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Design majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Structures](#)

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ASEN-4047 (3) Probability and Statistics for Aerospace Engineering Sciences

Considers probability concepts and theory for better design and control of aerospace engineering systems. Includes descriptive and inferential statistical methods for experimental analysis. Also covers discrete and continuous random variable distributions, estimators, confidence intervals, regression, analysis of variance, hypothesis testing, nonparametric statistics, random processes, and quality control, including software models of same. Prereq., junior or graduate standing or instructor consent. Same as ASEN 5047.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Computational & Analytic Meth](#)

ASEN-5047 (3) Probability and Statistics for Aerospace Engineering Sciences

Same as ASEN 4047. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Computational & Analytic Meth](#)

ASEN-5227 (3) Mathematics for Aerospace Engineering Sciences 1

Provides an introduction to the methods and mathematics of advanced engineering analysis tailored to aerospace engineering applications. Topics include vector and tensor calculus, ordinary differential equations, and an introduction to the calculus of variations. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Computational & Analytic Meth](#)

ASEN-5307 (3) Engineering Data Analysis Methods

Gives students broad exposure to a variety of traditional and modern statistical methods for filtering and analyzing data. Topics include estimation methods, principal component analyses and spectral analyses. Introduces these methods and provides practical experience with their use. Students carry out problem assignments. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Computational & Analytic Meth

ASEN-5417 (3) Numerical Methods for Differential Equations

Provides computational skills and basic knowledge of numerical methods for advanced courses in engineering/scientific computation using Fortran, C, or Matlab. Prereq., APPM 2360 and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Computational & Analytic Meth

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AREN-4045 (3) Architectural Structures 2

Analyzes basic structural systems. Covers principles of mechanics as applied to the design of flexural members, columns, continuous beams, and rigid frames. For nonengineering students; does not apply toward an engineering degree. Prereq., AREN 4035.

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ASEN-4047 (3) Probability and Statistics for Aerospace Engineering Sciences

Considers probability concepts and theory for better design and control of aerospace engineering systems. Includes descriptive and inferential statistical methods for experimental analysis. Also covers discrete and continuous random variable distributions, estimators, confidence intervals, regression, analysis of variance, hypothesis testing, nonparametric statistics, random processes, and quality control, including software models of same. Prereq., junior or graduate standing or instructor consent. Same as ASEN 5047.

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ECEN-4049 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [VLSI CAD Methods](#)

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EMEN-4050 (3) Leadership and Professional Skills

Provides basic concepts of leadership and the essential skills required to become an effective leader/manager. Students will be provided the opportunity for personal development through exercises in communication and leadership effectiveness. Other major topics include leadership styles, managing commitments, change management, negotiation, conflict resolution, organizational culture, emotional intelligence, team dynamics, and business ethics. Restricted to seniors in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

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ECEN-4053 (1-4) Special Topics

Same as ECEN 5053.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

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ASEN-4090 (3) Global Positioning Systems Applications

Focuses on GPS technology, software development, and applications. Lectures will cover the principal concepts used in GPS, and weekly laboratories will apply that knowledge. The course will culminate instudent design projects using GPS. Prereqs., APPM 2360 and GEEN 1300 or equivalent. Recommended junior/senior standing in engineering.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Global Positioning Systems](#)

ASEN-5090 (3) Introduction to Global Navigation Satellite Systems

Global Navigation Satellite Systems (GNSS) are important tools for navigation, science, and engineering. Introduces GNSS hardware, signal structure, algorithms, error sources, and modeling techniques. Programming experience is required. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Global Positioning Systems](#)

ASEN-6090 (3) Advanced Global Navigation Satellite Systems: Software and Applications

Focuses on high-precision applications of Global Navigation Satellite Systems (GNSS) and the software tools that are needed to achieve these precisions. Topics include precise orbital determination, reference frames, atmospheric delays, relativity, clock models, ambiguity resolution, and scientific applications. Prereq., ASEN 5090. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Global Positioning Systems](#)

ASEN-6091 (3) Global Navigation Satellite System (GNSS) Receiver Architecture

Investigates the overall architecture of satellite navigation receivers: including both the analog radio frequency conditioning (antenna to the analog-to-digital converter) and the various signal processing algorithms. Such treatment of the operation of the receiver will provide insight into the trade-offs that go into GNSS as well as the more broad generic spread spectrum receiver design. Recommended prereq., ASEN 5090. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

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ASEN-4090 (3) Global Positioning Systems Applications

Focuses on GPS technology, software development, and applications. Lectures will cover the principal concepts used in GPS, and weekly laboratories will apply that knowledge. The course will culminate instudent design projects using GPS. Prereqs., APPM 2360 and GEEN 1300 or equivalent. Recommended junior/senior standing in engineering.

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EMEN-4100 (3) Business Methods and Economics for Engineers

Covers cost concepts, financial statements, and the company economic environment. Includes concepts and methods of analysis of the time value of money, comparison of project alternatives before and after taxes, cash flows, replacement analysis, risk management, and financial cash statements. Restricted to junior or senior in the College of Engineering and Applied Science.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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ECEN-4106 (3) Photonics

Deals with the generation, transmission, modification and detection of light. Applications include fiber optics communications, data storage, sensing, and imaging. Leads to understanding of fundamental physical principles used in the analysis and design of modern photonic systems. Prereqs., ECEN 3400. Coreq., ECEN 3300. Restricted to seniors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [Optics](#)

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AREN-4110 (3) HVAC Design 1

Applies engineering principles to the design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, applied psychometrics, coils and heat exchangers, air and water distribution systems, and primary equipment and systems. Prereq., AREN 3010. Same as CVEN 5110.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

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ASEN-4114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 5114. Prerequisites: Requires pre-requisite courses of ASEN 3128 and ASEN 3200 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Systems and Control](#)

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CHEN-4450 (3) Polymer Chemistry

Introduces polymer science with a focus on polymer chemistry and polymerization reactions. Focuses on polymerization reaction engineering and how polymer properties depend on structure. Same as CHEN 5450. Prerequisites: Requires pre-requisite courses of CHEN 4830 or CHEM 3311 and CHEN 4330 (all min grade C-).

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-4460 (3) Polymer Engineering

Introductory polymer engineering course reviewing basic terminology and definitions; the properties and synthetic routes of important industrial polymers; and processing of polymers and their applications. Prereq., CHEM 3311 and CHEN 3320 (min. grade C-). Same as CHEN 5460. Prerequisites: Requires pre-requisite courses of CHEM 3311 and CHEN 3320.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CVEN-4464 (3) Environmental Engineering Processes

Develops and utilizes analytic solutions for environmental process models that can be used in a) reactor design for processes used in the treatment of water, wastewater and hazardous waste and b) process analysis of natural systems, such as streams and groundwater flow. Models facilitate the tracking of contaminants in engineered and natural systems. Prereq. or coreq., CVEN 3414 or equivalent and Fluid Mechanics. CVEN 4464 and 5464 are the same course.

[College of Engineering & Applied Science](#) | [Civil Engineering](#) | [Environmental](#)

AREN-4466 (3) Construction Planning and Scheduling

Comprehensively studies project management activities for scheduling and delivering construction projects, including the contractor's role in preconstruction and construction activities and the

application of CPM/PERT techniques to the planning, scheduling, and control of a construction project. Prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only.
Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

CVEN-4474 (3) Hazardous and Industrial Waste Management

Evaluates processes used for treatment of wastes requiring special handling and disposal: toxic organic chemicals, heavy metals, and acidic, caustic, and radioactive waste material. Discusses techniques for destruction, immobilization, and resource recovery and assessment of environmental impact of treatment process end products. Prereq., CVEN 3414. Same as CVEN 5474.
Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-4484 (3) Introduction to Environmental Microbiology

Surveys microbiology topics germane to modern civil and environmental engineering. Provides fundamentals needed to understand microbial processes and ecology in engineered and natural systems and reviews applications emphasizing the interface between molecular biology and classical civil engineering. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 2350 (or MATH 2400).

College of Engineering & Applied Science | Civil Engineering | Environmental

CSCI-4502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CVEN-4511 (3) Introduction to Finite Element Analysis

Systematic formulation of finite element approximation and isoparametric interpolation (weighted residual and energy methods, triangular and quadrilateral elements). Includes computation applications to the solution of one- and two-dimensional stress-deformation problems, steady and transient heat conduction, and viscous flow. Prereqs., CVEN 3161, 3525, and Appm 2360. Same as CVEN 5511.

College of Engineering & Applied Science | Civil Engineering | Mechanics

ECEN-4517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Focuses on analysis, modeling, design, and testing of electrical energy processing systems in a practical laboratory setting. Studies power electronics converters for efficient utilization of available energy sources, including solar panels and utility. The experimental projects involve design, fabrication, and testing of a solar power system. Prereq., ECEN 4797. Restricted to seniors. Same as ECEN 5517.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ASEN-4519 (1-3) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CHEN-4520 (3) Chemical Process Synthesis

Studies applied chemical process design including equipment specification and economic evaluation. Prerequisites: Requires pre-requisite courses of CHEN 3210, 3220, and 4330 or 4830 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CVEN-4525 (3) Analysis of Framed Structures

Studies matrix formulation of principles of structural analysis and development of direct stiffness and flexibility methods for analysis of frame and truss structures. Topics include support settlements, thermal loads, and energy formulations of force-displacement relationships. Prereq., CVEN 3525. Same as CVEN 5525.

College of Engineering & Applied Science | Civil Engineering | Structures

CHEN-4530 (2) Chemical Engineering Design Project

Provides a team-based capstone design experience for chemical engineering students. Projects are sponsored by industry and student design teams collaborate with industrial consultants. Projects consider chemical process and product design with emphasis on economic analysis. Deliverables include an oral mid-project design review, a final oral presentation and final written design report. Prereq., CHEN 4520 (min. grade C-). Prerequisites: Requires pre-requisite course of CHEN 4520.

College of Engineering & Applied Science | Chemical Engineering

ECEN-4532 (3) Digital Signal Processing Laboratory

Develops experience in code development, debugging, and testing of real-time digital signal processing algorithms using dedicated hardware. Applications include filtering, signal synthesis, audio special effects, and frequency domain techniques based on the Fast Fourier Transform. Prereq., ECEN 3300. Coreq., ECEN 4632. Same as ECEN 5532.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

CVEN-4537 (3) Numerical Methods in Civil Engineering

Introduces the use of numerical methods in the solution of civil engineering problems, emphasizing obtaining solutions with high-speed electronic computers. Applies methods to all types of civil

engineering problems. Prereq., senior standing. Same as CVEN 5537.

College of Engineering & Applied Science Civil Engineering Miscellaneous

AREN-4540 (3) Exterior Lighting Systems

Engages students in exploring and solving lighting problems for exterior environments. Provides an understanding of the design criteria and lighting equipment used in three primary exterior applications: parking lots and roadways, floodlighting of buildings, and sports facilities. Prereq., AREN 3540. Recommended prereqs., AREN 3140 and 4550. Same as CVEN 5540. Taught intermittently.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-4545 (3) Steel Design

Applies basic principles to design of steel structures; design of tension members, columns, beams, open-web joists, steel decks, bolts, bolted connections, welding processes, and welded connections. Prereq., CVEN 3525. Prerequisites: Requires pre-requisite course of CVEN 3525 (min grade C-).

College of Engineering & Applied Science Civil Engineering Structures

AREN-4550 (3) Illumination 2

Applies the principles studied in Illumination 1. Provides further study in architectural lighting design methods. Uses lighting studio work to develop a broad knowledge of lighting equipment, design methods, and their application in a series of practical design problems in modern buildings. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

ECEN-4553 (3) Compiler Construction

Introduces the principles and techniques for compiling high-level programming languages to assembly code. Topics include parsing, instruction selection, register allocation, and compiling high-level features such as polymorphism, first-class functions, and objects. Students build a complete compiler for a simple language. Prereqs., ECEN 2703 and ECEN 3350. Same as CSCI 4555 and ECEN 5523. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

CVEN-4554 (3) Fundamentals of Air Quality Management

Introduces engineering methods for the study of air quality. Topics include: indoor air quality, greenhouse gases, dispersion modeling, acidification of lakes, sources apportionment modeling, chemistry of combustion, pollution sources and controls, and human exposure to air pollutants. Under consideration as requirement for EVEN students in air quality track or concentration course in environmental engineering for undergraduate CVEN students. Prereqs., APPM 2360 (or MATH 3130 and 4430) and CVEN 3313 (or CHEN 3200 or MCEN 3021). Same as CVEN 5554. Prerequisites: Requires pre-requisite courses of APPM 2360 (or MATH 3130 and 4430) and CHEN 3313 (or CHEN 3200 or MCEN 3021).

College of Engineering & Applied Science Civil Engineering Environmental

CSCI-4555 (3) Compiler Construction

Introduces the basic techniques used in translating programming languages: scanning, parsing, definition table management, operator identification and coercion, code selection and register allocation, error recovery. Students build a complete compiler for a simple language. Prereqs., CSCI 2400 or ECEN 3350 and CSCI 2824. Same as ECEN 4553 and CSCI 5525.

College of Engineering & Applied Science Computer Science Programming Languages

CVEN-4555 (3) Reinforced Concrete Design

Focuses on applications to the design of reinforced concrete structures, including design of beams, columns, slabs, and footings; continuous beams and frames; cast-in-place buildings. Prereq., CVEN 3525.

College of Engineering & Applied Science Civil Engineering Structures

ECEN-4555 (3) Principles of Energy Systems & Devices

Develops principles underlying electronic, optical and thermal devices, materials and nanostructures for renewable energy. Course provides a foundation in statistical thermodynamics, and uses it to analyze the operation and efficiency limits of devices for photovoltaics, energy storage (batteries & ultra-capacitors), chemical conversion (fuel cells and engines), solid state lighting, heat pumps, cooling, and potentially harvesting zero-point energy from the vacuum. Prereq., ECEN 3810. Prereq. or coreq., PHYS 2130 or 2170 or instructor consent. Same as ECEN 5555.

College of Engineering & Applied Science Electrical & Computer Engineering Nanostructures and Devices

AREN-4560 (3) Luminous Radiative Transfer

Teaches fundamentals of radiative exchange as applied to illumination engineering. Describes and uses principal numerical techniques for radiative transfer analysis. Applies techniques to lighting design and analysis. Taught intermittently. Prerequisites: Requires pre-requisite course of AREN 3540.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

CVEN-4565 (3) Timber Design

Applies design methods to beams, columns, trusses, and connections using timber and glued, laminated members. Prerequisites: Requires pre-requisite course of CVEN 3525.

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CSCI-7782 (3) Topics in Cognitive Science

Addresses a different set of one to three topics each year. For each topic, one or two faculty members of the Institute of Cognitive Science present background material and current research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Artificial Intelligence](#)

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CVEN-7788 (3) Soil Behavior

Topics include soil mineralogy, formation of soils through sedimentary processes and weathering, determination of soil composition, soil water, colloidal phenomena in soils, fabric property relationships, analysis of mechanical behavior including compressibility, strength and deformation, and conduction phenomena in terms of physicochemical principles. Involves applications for stabilization and improvement of soils, and disposal of waste materials. Prereq., CVEN 3718 or instructor consent.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Geotechnical](#)

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CSCI-7818 (3) Topics in Software Engineering

Studies selected topics of current interest in software engineering. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

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ECEN-7840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840-7849. Prereq., advisor consent.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

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CVEN-4700 (3) Sustainability and the Built Environment

Introduces fundamental concepts of sustainability and sustainable development. Special emphasis on understanding the interaction of the built environment with natural systems and the role of technical and non-technical issues in engineering decisions. Open to engineering and non-engineering students. Same as CVEN 5700.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems](#)

CVEN-5010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Same as AREN 4010.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems](#)

CVEN-5020 (3) Building Energy Audits

Analyzes and measures performance of HVAC systems, envelopes, lighting and hot water systems, and modifications to reduce energy use. Emphasizes existing buildings. Prereq., AREN 3010 or equivalent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems](#)

CVEN-5030 (3) Architectural Lighting Equipment Design

Covers the specification and design of nonimaging optical systems for architectural lighting equipment reflector design. Develops and uses computer software to design optics that are prototyped and tested in the laboratory. Prereq., AREN 3540 or CVEN 5830. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5040 (3) Lighting Systems Engineering

Introduces architectural lighting, including vision and perception, lighting equipment and its characteristics, calculations and analysis, and the process of lighting design. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5050 (3) Advanced Solar Design

Predicts performance and analyzes economics of high temperature, photovoltaic, and other innovative solar systems. Also includes performance prediction methods for solar processes. Prereqs., AREN 2120, coursework in thermodynamics, fluid mechanics and heat transfer. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5070 (3) Thermal Analysis of Building

Examines response factors, conduction transfer functions, and weighting factors for dynamic analysis of building envelopes. Also studies radiative and convective exchange in buildings, internal gains, and infiltration analysis as modeled in hourly simulations. Prereq., AREN 3010 or equivalent.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5080 (3) Computer Simulation of Building Energy Systems

Introduces major simulation programs for analysis of building energy loads and system performance. Focuses on one hourly simulation program to develop capability for analysis of multizone structure. Prereq., AREN 4110 or CVEN 5110. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5110 (3) HVAC Design 1

Explores design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, code compliance, duct design, fan systems, applied psychrometrics, cooling and heating coils, filters, hydronic systems, piping, and pumps. Prereq., AREN 3010 or equivalent. Same as AREN 4110.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5540 (3) Exterior Lighting Systems

Engages students in exploring and solving lighting problems for exterior environments. Provides an understanding of the design criteria and lighting equipment used in three primary exterior applications: parking lots and roadways, floodlighting of buildings, and sports facilities. Prereq., AREN 3540. Recommended prereqs., AREN 3140 and 4550. Same as AREN 4540. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5700 (3) Sustainability and the Built Environment

Same as CVEN 4700.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-5830 (3) Special Topics for Seniors/Grads

Prereq., instructor consent. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-6940 (1) Master's Degree Candidate

College of Engineering & Applied Science | Civil Engineering | Building Systems

CVEN-8990 (1-10) Doctoral Thesis

A minimum of 30 credit hours is required.

College of Engineering & Applied Science | Civil Engineering | Building Systems



ECEN-7849 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840--7849. Prereq., advisor consent.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [VLSI CAD Methods](#)

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ASEN-8990 (1-10) Doctoral Thesis

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

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CHEN-8990 (1-10) Doctoral Thesis

[College of Engineering & Applied Science](#) [Chemical Engineering](#)

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CVEN-8990 (1-10) Doctoral Thesis

A minimum of 30 credit hours is required.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems](#)

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TLEN-5010 (3) Network Economics and Finance I

Introduces students to the fundamental theoretical framework and tools used by economists to examine decision making under scarcity. Reviews mathematical economics and models. Examines consumer choice and firm supply. These two aspects of the market are brought together to examine how price and output are determined in competitive and imperfectly competitive markets. Introduces financial economics, network effects and public goods. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5020 (3) Economics of Competition Policy in Network Industries

Develops methods to evaluate investments to account for uncertainty and dynamics. Examines approaches such as real options methodology, useful in a wide variety of applications including stock and project valuations, capital budgeting, and strategic planning. Prereq., TLEN 5010 or instructor consent.

College of Engineering & Applied Science | Telecommunications

TLEN-5050 (3) Leadership and Management

One year work experience is required. Same as EMEN 5050. Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

College of Engineering & Applied Science | Telecommunications

TLEN-5106 (3) International Telecommunications

Examines the theoretical and practical identification, evaluation, and alternative strategies to establish a telecommunications venture in developed and developing countries. A semester-long project

will develop and present a business plan to a potential investor. Class topics include cultural issues, partnerships, pricing, marketing, operations, financial structure, and risk. National approaches to licensing, pricing, spectrum, interconnection, and competition law are emphasized. Prereq., TLEN 5010. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5130 (3) Telecommunications Business Strategy

Covers concepts, strategies, and practical implementation of market oriented business strategy in the telecom industry grounded with real world examples. Topics include positioning, segmentation/ targeting, technology adoption, advertising/outreach, communication strategies, product management, sales process and business intelligence. Prereq., TLEN 5010. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5140 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereq., TLEN 5010. Same as OPIM 4040/5040 and MGMT 4090.

College of Engineering & Applied Science Telecommunications

TLEN-5150 (1) Managing Effectively in a Changing Telecommunications Environment

Provides students with an opportunity to join international managers and policy makers from around the world in an intensive seminar focused on the challenges of managing in a telecommunications environment in an era of technological change. Guest lecturers provide an effective overview of the cutting-edge issues managers face in telecom and technology companies around the world. TLEN 5150 and ATLS 5150 are the same course.

College of Engineering & Applied Science Telecommunications

TLEN-5160 (3) Information Technologies and Communications

Provides a perspective of the basic and relevant issues of the communications and information technologies (CIT) industry, while gaining a wide picture overview of its main problems and trends. Students learn the technical, economic, management, and regulatory perspectives of CIT. The fundamental concepts and terminology associated with the communications industry is included in the course content. Recommended prereq., TLEN 5010.

College of Engineering & Applied Science Telecommunications

TLEN-5190 (3) Standardization and Standards Wars

Examines current issues and strategy in the standardization of telecommunications and information technologies. Covers topics on the importance of standards, government and private sector perspectives, and impact of information age technologies on standards development. Introduces students to relevance of antitrust and intellectual property law to the topic.

College of Engineering & Applied Science | Telecommunications

TLEN-5206 (3) International Telecommunication Policy and Best Practices

Addresses networking and telecommunication policy issues faced by countries around the world. Subjects include financing projects, service for underdeveloped/under served areas, managing spectrum effectively, licensing new service providers, and complying with international treaty obligations. Recommended prereqs., TLEN 5010 and 5210. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

TLEN-5210 (2) Principles of Telecommunications Policy

Learn the key issues and principles that guide the decisions of policy makers with respect to the regulatory treatment of voice, video, and data communications. Engage in critical debate, and develop instincts for anticipating the likely regulatory models that may be applied to new technologies. This introductory course covers technical, economic, legal, political, and institutional considerations. Prereq., TLEN 5010. Same as CSCI 4143.

College of Engineering & Applied Science | Telecommunications

TLEN-5230 (3) Spectrum Management and Policy

Studies how spectrum policy is developed and implemented. A general framework is developed for understanding telecommunications law and regulatory objectives. Course specifically analyzes international and domestic dimensions of spectrum policy. It also considers how economics, administrative processes, and innovative technologies affects management of the spectrum.

College of Engineering & Applied Science | Telecommunications

TLEN-5240 (3) Telecommunications Law and Policy

May be repeated up to 6 total credit hours. Same as LAWS 7241. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5245 (3) Introduction to Intellectual Property Law

Provides an overview of our nation's intellectual property laws, including patent, copyright, trademark, trade secret, and also discusses other assorted matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as LAWS 6301.

College of Engineering & Applied Science | Telecommunications

TLEN-5250 (2-4) Technology Law and Policy Clinic

Features technology law advocacy before administrative and legislative bodies. The mission of TLPC is: 1) to train and produce students equipped to conduct thoughtful analysis, and 2) provide unbiased assistance in the public interest concerning technology issues to regulatory entities, courts, legislatures and standard setting bodies. Recommended prereqs., LAWS 6301, 6318 or 7241. LAWS 7809 and TLEN 5250 are the same course.

College of Engineering & Applied Science Telecommunications

TLEN-5255 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Formerly TLEN 5535. Same as LAWS 6321.

College of Engineering & Applied Science Telecommunications

TLEN-5265 (3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as LAWS 7301. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5270 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Recommended prereq., TLEN 5210. Same as LAWS 7201. Offered in alternate years. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5300 (1-3) Telecommunications Theory and Applications

Examines the mathematical and physical theory of telecommunications. Deals with the fundamental concepts related to a wide range of topics including physical units, numbering systems, trigonometric functions, logarithms, indices, decibels, complex numbers, calculus, elementary probability, and power circuit analysis. May be repeated up to 3 credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5310 (3) Telecommunications Systems

Reviews fundamental technical concepts and terminology in telecommunications. Topics of focus include: decibels, noise analysis, transmission lines, electronic signals, radio spectrum

characteristics, link budgets, AM modulation, angle modulation, digital modulation, multiplexing, sampling and digital encoding, detection, and similar physical layer concepts. Systems for analysis include CATV, cellular wireless, WLAN, satellite systems, internet networking and related voice and data networks. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5330 (3) Data Communications 1

Provides a comprehensive technical survey of data and computer communications including Wireless, LAN, MAN, and WAN systems and standards. Covers packet switching, internetworking, addressing, routing, transport layers, TCP/IP internet, wired and wireless LAN technologies, congestion control and flow control schemes. Prereq. or coreq., TLEN 5310. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5340 (3) VOIP Network Design

Focuses on VoIP network design and optimization. The emphasis is on the convergence of VoIP, PSTN and cell phone networks and signaling. Topics include voice processing as well as IP and SS7 signaling. In addition there will be a review of ISDN, DSL, Sonet, ATM, SIP and MPLS. There will be a case problem for sizing a VoIP network using silence suppression. Coreq., TLEN 5310. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5350 (3) Satellite Communication Systems

Aimed at a high level fundamental understanding of broadcasting, communication and navigation satellite systems. Topics include orbital mechanics, orbit selection, spacecraft subsystems, spacecraft and earth station configurations, propagation issues, link budgets, modulation and multiplexing techniques, multiple access schemes (FDMA, TDMA, CDMA), error control coding, satellite network architecture, and economic, regulatory and business issues in Geo, Meo, and Leo systems. Co-req., TLEN 5330. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5370 (3) IP Routing Protocols

Breaks IP routing technologies into two fundamental pieces: an in-depth study of interior and then exterior gateway protocols. Prereq., TLEN 5330. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5380 (3) Future of Video: Technology, Policy, and Economics

Examines the issues that have been created by the shift from analog to digital technologies, the shift from narrowband/wideband systems to broadband systems, and the shift to converged networks (i.e. networks able to convey voice, data, image and video traffic on a common platform) based upon packet switching and Internet Protocol (IP) suite. Prereq., TLEN 5210. TLEN 5380 and ATLS 5380 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

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ECEN-8990 (1-10) Doctoral Thesis

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

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TLEN-8990 (1-10) Doctoral Dissertation

Investigates specialized topic or field in the area of telecommunications. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

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MCEN-7120 (3) Perturbation Methods

Teaches regular and singular perturbation methods for solving ordinary and partial differential equations and for evaluating integrals. Emphasizes formulation of mathematical models in fluid mechanics, combustion, heat transfer, solid mechanics, dynamics, and wave propagation. Prereq., MCEN 5020 and 5040, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Math](#)

MCEN-7122 (3) Combustion Phenomena

Applies multicomponent fluid equations of motion and chemical thermodynamics to a variety of combustion problems. Covers droplet combustion, premixed and diffusion flames, boundary layer combustion, detonation wave theory, topics related to internal combustion engines, and liquid and solid rockets. Prereq., MCEN 3012 and 3021. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Thermal](#)

CSCI-7123 (3) Topics in Operating Systems

Topics selected by instructor. Possible topics are system design, measurement and evaluation, simulation, mathematical modeling, and parallelism. Prereq., CSCI 5573. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[Operating Systems and Hardware](#)

MCEN-7123 (3) Dynamics of Continuous Media

Reflects upon derivation of wave equations from the basic equations of dynamic elasticity. Topics include propagation of elastic waves in infinite and partially bounded media, Rayleigh waves and Love waves, Pochhammer solution for a rod, and waves in plates and in layered and anisotropic media. Prereq., MCEN 5020, 5040, and 5043, or equivalents. Same as PHYS 6680 and GEOL 6680. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Solids

CSCI-7135 (3) Topics in Programming Languages

Topics selected by instructor. Possible topics are syntax, semantics, metacompilers, compiler design, and translator writing systems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Programming Languages

CVEN-7141 (3) Plates and Shells

Teaches mathematical theories of plate and shell structures and their applications. Involves numerical finite element solutions of plates and shells of various shapes under static and dynamic loadings. Prereq., CVEN 5121 or 7131.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CSCI-7143 (3) Topics in Computer Systems

Topics selected by instructor. Possible topics are online systems, multiprocessing, microprogramming, architecture, data communications, and computing networks. May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-7154 (3) Topics in Theory of Computation

Selected topics of current interest in theory of computation. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CVEN-7161 (3) Fracture Mechanics

This course has three parts. The first covers fundamentals through rigorous mathematical formulations of linear and nonlinear elastic fracture mechanics. The second focuses on materials: theoretical strength, metals, granular materials, polymers, and steel. The third covers numerical (finite element) methods in fracture mechanics. Heavy emphasis is placed on project and independent work. Prereq., CVEN 5121.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CSCI-7176 (3) Topics in Numerical Computation

Topics selected by instructor. Possible topics are numerical linear algebra, solution of differential equations, nonlinear algebra and optimization, data fitting, linear and nonlinear programming, and solution of large problems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CVEN-7206 (1) CEM PhD Seminar

Examines emerging research in construction engineering and management. Students will consider and comment on research methods and designs based on their own work and that of CU faculty and other leading researchers. Aims to make CEM Ph.D students better researchers and evaluators of research methods and processes.

College of Engineering & Applied Science | Civil Engineering | Construction

MCEN-7208 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered MCEN 7208-7298.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

CSCI-7212 (3) Topics in Symbolic Artificial Intelligence

Topics vary from year to year. Possible topics include search; knowledge representation and natural language understanding; deduction, planning, problem solving, and automatic programming; instruction and cognitive models; vision and speech; and learning, induction, and concept formation. Prereq., CSCI 5582 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

MCEN-7221 (3) Turbulence

Hydrodynamic stability theory, equations for turbulent flows, free shear flows and boundary layers, homogeneous and isotropic turbulence, overview of turbulent combustion, reaction kinetics, energy equation, Favre averaging, Pdfs, premixed and nonpremixed flame modeling, and recent developments. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

CSCI-7222 (3) Topics in Nonsymbolic Artificial Intelligence

Topics vary from year to year. Possible topics include human and machine vision, signal and speech processing, artificial life, mathematical foundations of connectionism, and computational learning theory. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7412 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for graduate students pursuing a joint Ph.D in an approved core discipline and cognitive science. Projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students should obtain commitments from two mentors for their project. Prereqs., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereqs., CSCI7762 or EDUC 6505 or LING 7762 or PSYC 7765. Same as LING 7415, PSYC 7415, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7422 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Ph.D in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, LING 7425, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

ECEN-7438 (3) Theory of Nonlinear Systems

Nonlinear systems and control. Introduction to nonlinear phenomena: multiple equilibria, limit cycles, bifurcations, complex dynamical behavior. Planar dynamical systems, analysis using phase plane techniques. Input-output analysis and stability. Passivity. Lyapunov stability theory. Feedback linearization. Exploration of examples and applications. Prereq., ECEN 5448.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

CVEN-7511 (3) Computational Mechanics of Solids and Structures

Looks at finite element methodology for geometric and material nonlinearities. Involves incremental formulations and iterative solution strategies for truly finite increments and quasistatic and dynamic applications to large deformation and inelastic problems. Prereqs., CVEN 5511 or 6525.

College of Engineering & Applied Science | Civil Engineering | Mechanics

CVEN-7565 (3) Inelastic Theory of Structures

Examines inelastic behavior of materials, including calculation of ultimate capacity of perfectly plastic structures by use of upper- and lower-bound theorems. Looks at theories of inelastic action as applied to structural design in steel and concrete and elements of theory of plasticity with applications in ultimate analysis of plates, shells, and continuous bodies. Prereq., CVEN 3505.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-7595 (3) Earthquake Engineering

Analysis and design of structures for earthquake loadings. Earthquake ground motions, attenuation laws, and seismic hazard analysis. Numerical methods for time-domain and frequency-domain analysis response of linear and nonlinear structures. Elastic and inelastic response spectra, and construction of design spectra. Soil-structure interaction analysis. Seismic design methods and building code requirements. Prereq., CVEN 5111 or equivalent.

College of Engineering & Applied Science | Civil Engineering | Structures

CSCI-7717 (3) Topics in Database Systems

Studies topics such as distributed databases, database interfaces, data models, database theory, and performance measurement in depth. Prereq., CSCI 5817 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Database Systems

CVEN-7718 (3) Engineering Properties of Soils

Considers constitutive behavior of cohesive and cohesionless soils including stress-strain, strength, pore water pressure, and volume change behavior under drained and undrained loading conditions. Also includes linear and nonlinear analysis techniques and determination of constitutive properties in the laboratory. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CSCI-7762 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint Ph.D in cognitive science. Prereq., graduate standing. Same as EDUC 6505, LING 7762, and PSYC 7765. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-7772 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, PSYC 7775, EDUC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

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ECEN-5626 (3) Active Optical Devices

Analysis of active optical devices such as semiconductor laser, detector and flat panel display by clearly defining and interconnecting the fundamental physical mechanism, device design and operating principles and device performance. Recommended prereq., ECEN 5355.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Optics](#)

CVEN-5628 (3) Seepage and Slopes

Covers fundamental principles of seepage in soils under both saturated and unsaturated conditions and limit equilibrium solution to slope stability problems. The seepage effects on slope stability are analyzed in detail and both conventional slope stability method and the finite element technique are applied to solving the engineering problems. Prereqs., CVEN 3708 and 3718 or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Geotechnical](#)

CHEN-5630 (1) Intellectual Property Law and Engineering

Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

ECEN-5632 (3) Theory and Application of Digital Filtering

Digital signal processing and its applications are of interest to a wide variety of scientists and engineers. The course covers such topics as characterization of linear discrete-time circuits by unit pulse response, transfer functions, and difference equations, use of z-transforms and Fourier analysis, discrete Fourier transform and fast algorithms (FFT), design of finite and infinite impulse

response filters, frequency transformations, study of optimized filters for deterministic signals. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5633 (3) Hybrid Embedded Systems

Same as ECEN 4633. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5634 (3) Graduate Microwave and RF Laboratory

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Restricted to graduate students. Same as ECEN 4634.

Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

CSCI-5636 (3) Numerical Solution of Partial Differential Equations

Focuses on finite difference solution for partial differential equations, methods of SoR, ADI, conjugate gradients, finite element method, nonlinear problems, and applications. Prereqs., CSCI 5606. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

MCEN-5636 (3) Micro-Electro-Mechanical Systems 1

Addresses issues of micro-electro-mechanical systems (MEMS) modeling, design, and fabrication. Emphasizes the design and fabrication of sensors and actuators due to significance of these devices in optics, medical instruments, navigation components, communications, and robotics. Prereq., instructor consent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

ECEN-5643 (3) SW Engineering of Concurrent Systems

Addresses engineering of applications requiring multiple software processes running concurrently, sharing data, and communicating as a system in a single environment. Topics include performance analysis of architecture design; analysis of requirements, design and testing of synchronization and communication; the interplay of system design and performance with the impact of memory management, input/output, and file system support. Prereq., ECEN 4583 or 5543. ECEN 4643 and 5643 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5645 (3) Introduction to Optical Electronics

Introduces lasers, Gaussian optics, modulators, nonlinear optics, optical detectors, and other related devices. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

CSCI-5646 (3) Numerical Linear Algebra

Offers direct and iterative solutions of linear systems. Also covers eigen value and eigenvector calculations, error analysis, and reduction by orthogonal transformation. A sound knowledge of basic linear algebra, experience with numerical computation, and programming experience is required. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CHEN-5650 (3) Particle Technology

Extra work required for graduate course. Same as CHEN 4650.

College of Engineering & Applied Science | Chemical Engineering

ECEN-5652 (3) Detection and Extraction of Signals from Noise

Introduces detection, estimation, and time series analysis. Topics include hypothesis testing, detection of known form and random signals, least squares parameter estimation, maximum likelihood theory, minimum mean-squared error estimation, Kalman-Wiener filtering, prediction in stationary time series, and modal analysis. Applications include studies in communications, control, and experimental modeling. Prereq., ECEN 5612.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5653 (3) Real-Time Digital Media

Learn how to design and build Linux-based real-time system applications for digital media encode/decode and transport. Course focus is on the process as well as fundamentals of designing, coding, and testing Linux-based real-time systems often used in industry for digital media systems. Students use POSIX kernel-mapped threads and drivers to implement real-time digital media solutions. Prereqs., ECEN 1030 or CSCI 1300, and CSCI 3753 or equivalent. Restricted to engineering students. ECEN 4653 and 5653 are the same course.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

CSCI-5654 (3) Linear Programming

Presents algorithms, simplex, and modifications. Examines theory--duality and complementary slackness. Involves network flow algorithms. Introduces integer programming. Prereq., linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CHEN-5670 (3) Environmental Separations

Lect. Covers traditional, as well as new, chemical separations processes that have environmental applications. Includes chemically benign processing (pollution prevention) as well as approaches to address existing pollution problems. Extra work required for graduate course. Same as CHEN 4670.

College of Engineering & Applied Science | Chemical Engineering

ECEN-5672 (3) Digital Image Processing

Course objective is to present the fundamental techniques available for image representation and compression (e.g., wavelets), filtering (e.g., Wiener and nonlinear filter), and segmentation (e.g., anisotropic diffusion). Prereq., ECEN 5632 or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

CSCI-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereqs., CSCI 5573 or a course in computer networks. Same as ECEN 5673. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

ECEN-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereq., CSCI 5573 or a course in computer networks. Same as CSCI 5673.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

CVEN-5678 (3) Soil Improvement and Reinforcement

Provides students with principles and working knowledge of design and construction procedures in soil stabilization, retaining structures, geosynthetics, and soil reinforcement. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

ECEN-5682 (3) Theory and Practice of Error Control Codes

Block and convolutional codes for reliable transmission of digital data over unreliable noisy channels. Algebraic and dsp characterizations of cyclic codes such as Bch/Rs codes. Decoding algorithms for block codes and the Viterbi algorithm. Graph codes and iterative decoding. Prereq., ECEN 3300.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

CVEN-5688 (3) Environmental Geotechnics

Provides an understanding of the use of geotechnical concepts in the analysis and design of environmental systems. Focus is placed on the evaluation of waste containment facilities. Including relevant saturated, unsaturated, and multiphase flow mechanisms in cover and liner systems. Includes stability analyses for landfills and geosynthetic interface shear strength. Covers relevant aspects of mining geotechnics and remediation technologies of contaminated sites.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

ECEN-5692 (3) Principles of Digital Communication

Techniques for efficient and reliable transmission of information over bandwidth and power constrained communication channels; digital modulation methods, power spectral density calculations, optimum receiver principles, error rate analysis, channel coding potential in wired/wireless media, trellis coded modulation, and equalization. Prereqs., ECEN 3300 and 5612 or equivalents. Recommended prereqs., ECEN 5622 and 5632.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5696 (3) Fourier Optics

Introduces a system level approach to the analysis and design of optical systems. Topics include holography, Fourier transform properties of lenses, two-dimensional convolution and correlation functions, spatial filtering, and optical computing techniques. Also covers coherent and incoherent imaging techniques, tomography, and synthetic aperture imaging. Prereqs., ECEN 3300 and 3410, or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

CVEN-5700 (3) Sustainability and the Built Environment

Same as CVEN 4700.

College of Engineering & Applied Science | Civil Engineering | Building Systems

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TLEN-5700 (2) Research Methods

Develop basic concepts and methods for pursuing quantitative and qualitative research. Students will develop a research proposal that will be completed in TLEN 5710 or as a Master's Thesis. Writing skills test required. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

CVEN-5708 (3) Soil Mechanics

Offers an advanced course in principles of soil mechanics. Coverage includes topics in continuum mechanics; elasticity, viscoelasticity, and plasticity theories applied to soils; the effective stress principle; consolidation; shear strength; critical state concepts; and constitutive, numerical, and centrifuge modeling. Prereq., CVEN 3718. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Geotechnical](#)

EMEN-5710 (3) Applied Business Decisions

Student teams launch a high-tech company over eight quarters in a simulated business environment. Decisions are made in all major business areas-e.g. product development, marketing, operations, finance- in competition with other teams. Given the results of the previous quarter, teams make decisions for the next quarter. After the first year (four quarters), students prepare an elevator pitch, executive summary, and PowerPoint pitch to justify additional venture capital or a bank loan. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

TLEN-5710 (1) Capstone

Complete Capstone research project initiated in TLEN 5700, Research Methods. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

CSCI-5714 (3) Formal Languages

Explores context-free languages: pumping lemma and variants, closure properties, and decision properties. Involves parsing algorithms, including general and special languages, e.g., LR. Additional topics chosen by instructor. Prereq., CSCI 5444 or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CVEN-5718 (3) Mechanics and Dynamics of Glaciers

Same as CVEN 4718.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CSCI-5722 (3) Computer Vision

Explores algorithms that can extract information about the world from images or sequences of images. Topics covered include: imaging models and camera calibration, early vision (filters, edges, texture, stereo, optical flow), mid-level vision (segmentation, tracking), vision-based control, and object recognition. Recommended prereq., probability, multivariate calculus, and linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CVEN-5728 (3) Foundation Engineering

Same as CVEN 4728. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

ECEN-5737 (3) Adjustable-Speed AC Drives

Presents unified treatment of complete electrical drive systems: mechanical load, electrical machine, power converter, and control equipment. Emphasizes induction, synchronous, and permanent-magnet drives. Uses simulation programs (e.g., SPICE, Finite Element/Difference Program) to simulate drive system components (e.g., gating, inverter, electric machine). Prereq., Ecen 3170.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

CVEN-5738 (3) Applied Geotechnical Analysis

Studies applications of limiting equilibrium and limit plasticity analysis methods to stability problems in geotechnical engineering, such as slopes, lateral earth pressures on retaining structures, and bearing capacities of foundations. Also includes elastic and consolidation analysis of deformations in soil structures. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CHEN-5740 (3) Analytical Methods in Chemical Engineering

Presents applied analytical and numerical mathematical methods in the context of chemical engineering problems. Topics include modeling techniques, algebraic equations, and ordinary and partial differential equations. Prereq., senior or graduate standing; working knowledge of computing, calculus, differential equations, linear algebra, and vector operations; and undergraduate courses in physics, fluid mechanics, heat transfer, and reaction engineering. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

ECEN-5743 (3) SW Engineering of Distributed Systems

Addresses engineering of networked applications and self-contained embedded system products involving multiple processors. The fundamental concepts of software engineering are complicated by an application running simultaneously and asynchronously on multiple processors over a network. Topics: specification, analysis, design, and testing of distributed components including concerns of security, synchronization, transaction coordination, data replication, web services, and service oriented architectures. Prereq., ECEN 4583 or 5543 or CSCI 5548. Recommended prereq., ECEN 5643. ECEN 4743 and 5743 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

CVEN-5748 (3) Design of Earth Structures

Covers theory, design, and construction of earth embankments and waste facilities, including isolation systems. Uses published data, field exploration, and laboratory tests on soils and rock in investigating foundations and construction materials. Involves principles of compaction and settlement, permeability analysis, landslide recognition and control, use of composite clay, and liner systems. Prereq., CVEN 5708 or instructor consent.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CHEN-5750 (3) Numerical Methods in Chemical Engineering

Covers numerical methods for solving ordinary differential, partial differential, and integral equations. These principles are employed to develop, test, and assess computer programs for solving problems of interest to chemical engineers. Prereq., graduate standing or instructor consent.

College of Engineering & Applied Science | Chemical Engineering

TLEN-5750 (3) Research Techniques in Engineering Management

Same as EMEN 5900.

College of Engineering & Applied Science | Telecommunications

CSCI-5753 (3) Computer Performance Modeling

Same as CSCI 4753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Operating Systems and Hardware

ECEN-5753 (3) Computer Performance Modeling

Same as ECEN 4753 and CSCI 4753/5753.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

CVEN-5758 (3) Flow Processes in Soils

Examines fundamental principles of flow through porous media and related engineering problems. Topics include the saturated seepage theory and flow nets; the unsaturated flow theory; suction-saturation and saturation-hydraulic conductivity relationships; nonlinear finite strain consolidation and desiccation theory; laboratory and field testing methods for determining material characteristics; and numerical models for flow-related engineering problems. Prereq., CVEN 3718 or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5768 (3) Introduction to Rock Mechanics

Nature of rocks and rock masses; engineering properties rock and rock mass; rock mass classifications; planes of weakness; application of rock mechanics to design of rock slopes, underground excavations, and foundations. Prereqs., CVEN 3708 and 3718, or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-5788 (3) Computational Modeling in Geotechnical Engineering

Introduces computational modeling for geotechnical engineering applications such as the Discrete Element Method (DEM) for granular materials, nonlinear Finite Element Analysis (FEA) of seepage, coupled soil elastoplastic consolidation, elastoplasticity models for soil and rock, and advanced computational methods for failure in soil and rock. Uses DEM, FEA, and other software programs for analysis. Prereq., CVEN 5708, or instructor consent.

College of Engineering & Applied Science Civil Engineering Geotechnical

ECEN-5797 (3) Introduction to Power Electronics

Same as ECEN 4797. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Electrical & Computer Engineering Power

CVEN-5798 (3) Dynamics of Soils and Foundations

Examines the behavior of soils and foundations subjected to self-excited vibrations and earthquake ground motions. Looks at principles of wave propagation in geologic media; in situ and laboratory determination of engineering properties for dynamic analysis; and applications of these principles and properties in design and analysis of foundations and earth structures subjected to dynamic loading. Prereq., CVEN 5708 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CHEN-5800 (3) Bioprocess Engineering

Same as CHEN 4800, except that a major term report is required.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5803 (3) Metabolic Engineering

Introduces basic concepts in metabolic engineering and explores modern approaches in metabolic and strain engineering. Application areas that will be discussed will include the use of metabolic engineering approaches in biofuels and biorefining as well as biopharmaceutical production. CHEN 4803 and 5803 are the same course. Prerequisites: Requires pre-requisite courses of APPM 2360 and CHEM 4731 or CHEM 4611.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5805 (3) Biomaterials

Same as CHEN 4805.

College of Engineering & Applied Science | Chemical Engineering

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ECEN-5807 (3) Modeling and Control of Power Electronic Systems

Studies modeling and control topics in power electronics. Averaged switch modeling of converters, computer simulation, ac modeling of the discontinuous conduction mode, the current programmed mode, nulldouble injection techniques in linear circuits, input filter design, and low-harmonic rectifiers. Prereq., ECEN 5797.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Power](#)

CSCI-5809 (3) Computer Animation

Same as CSCI 4809 and ATLS 4809/5809. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[Graphics](#)

ECEN-5811 (3) Neural Signals and Functional Brain Imaging

Same as ECEN 4811 and ASEN 4216

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Bioengineering](#)

CSCI-5817 (3) Database Systems

Provides an advanced treatment of basic database concepts. Prereq., CSCI 2270. Recommended prereq., CSCI 3287 and 3753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Computer Science](#)

College of Engineering & Applied Science | Computer Science | Database Systems

ECEN-5817 (3) Resonant and Soft-Switching Techniques in Power Electronics

Covers resonant converters and inverters, and soft switching; sinusoidal approximations in analysis of series, parallel, Lcc, and other resonant dc-dc and dc-ac converters; state-plane analysis of resonant circuits; switching transitions in hard-switched and soft-switched Pwm converters; zero-voltage switching techniques, including resonant, quasi resonant, zero voltage transition, and auxiliary switch circuits. Prereq., ECEN 5797 or instructor consent required.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

CVEN-5818 (3) Geotechnical Earthquake Engineering

Familiarizes students with the fundamentals of engineering seismology, soil and structural dynamics, and the modern practice of geotechnical earthquake engineering. Focuses on describing earthquake hazards and methods for seismic analysis and design. Recommended prereq., CVEN 5798. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Geotechnical

CHEN-5820 (3) Biochemical Separations

Extra work required for graduate course. Same as CHEN 4820. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

ECEN-5821 (3) Neural Systems and Physiological Control

Same as ECEN 4821 and ASEN 4426/5426.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

CVEN-5822 (3) Geographical Information Systems for Civil and Environmental Systems

Same as CVEN 4822.

College of Engineering & Applied Science | Civil Engineering | Surveying and Transportation

EMEN-5825 (3) Entrepreneurial Business Plan Preparation

Instructs students in the necessary elements of a business plan and how to prepare a complete, well-written plan for an entrepreneurial business venture. Students work in teams to create a business concept and take it through business plan completion. Recommended prereq., EMEN 5020 or equivalent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

ECEN-5827 (3) Analog IC Design

Same as ECEN 4827. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

CSCI-5828 (3) Foundations of Software Engineering

Explores techniques, languages, and tools for development and maintenance of software systems. Topics include specification languages, configuration modeling, testing techniques, process modeling, program annotations, and program proofs. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CHEN-5830 (1) Introduction to Modern Biotechnology

Introduces students to the biotechnology enterprise. Topics include the biotechnology industry and profession, the various academic disciplines of biotechnology, intellectual property, financing, and ethics.

College of Engineering & Applied Science | Chemical Engineering

CVEN-5830 (3) Special Topics for Seniors/Grads

Prereq., instructor consent. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Building Systems

ECEN-5830 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

TLEN-5830 (1-6) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

CHEN-5831 (2) Biotechnology Case Studies

Capstone course required of all graduate students in the interdisciplinary graduate biotechnology certificate program. Reviews molecular genetics, product synthesis and purification, economics, intellectual property, and business planning. Working in teams, students present a biotechnology product plan. Prereq., CHEN 5830.

College of Engineering & Applied Science | Chemical Engineering

ECEN-5831 (3) Brains, Minds, and Computers

Same as ECEN 4831, and ASEN 4436/5436. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

TLEN-5831 (3) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

CSCI-5832 (3) Natural Language Processing

Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs. Prereq., graduate standing or instructor consent. Same as LING 5832.

Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CVEN-5834 (1-3) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CHEN-5835 (3) Colloids and Interfaces

Provides a deep exploration of the fundamental principles of colloid and interface science and of related applications. Core topics include fundamental equations of interfacial science, capillary phenomena, interfacial thermodynamics interfaces, molecular monolayers, electrical surface properties, and interfacial forces. Advanced topics include wetting phenomena, adsorption isotherms, dynamic interfacial behavior, surface modification, tribology, surfactant self-assembly, and foams/emulsions among others. Prereq., CHEN 3320 (min. grade C-).

College of Engineering & Applied Science | Chemical Engineering

CVEN-5835 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science | Civil Engineering | Structures

CHEN-5836 (3) Nanomaterials

Presents fundamental chemical and physical concepts that give rise to the unique optical, electronic and magnetic properties of nanoscale materials. Introduces important synthetic routes for producing nanomaterials, and interparticle forces governing colloidal behavior and self-assembly. Discusses current and potential applications in catalysis, biomedicine, renewable energy, and other fields. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students only. CHEN 4836 and 5836 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CVEN-5836 (1-3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. May be repeated up to 6 total credit hours. Prereq., Instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Construction



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CVEN-5837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Miscellaneous](#)

ECEN-5837 (3) Mixed-Signal IC Design Lab

Software laboratory course extends the concepts developed in ECEN 4827 to full design and layout of mixed analog and digital custom integrated circuits. Assignments explore implementation of analog to digital and digital to analog converters, and final project develops a full custom IC for a target application. Prereq., ECEN 5827.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Power](#)

CHEN-5838 (1-3) Special Topics in Chemical Engineering

Graduate-selected topics courses offered upon demand. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

CSCI-5839 (3) User-Centered Design

Restricted to graduate students or instructor consent. Same as CSCI 4839. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[Graphics](#)

CHEN-5840 (1-4) Independent Study

Available to MS and PHD students.

College of Engineering & Applied Science | Chemical Engineering

ECEN-5840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the master's level. Numbered ECEN 5840-5849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

EMEN-5840 (1-3) Independent Study Project

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

MCEN-5848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848--5898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

ASEN-5849 (1-6) Independent Study

Study of special projects. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CVEN-5849 (1-3) Independent Study

Available only through approval of graduate advisor. Subject arranged to fit needs of student. May be repeated up to 6 total credit hours.

College of Engineering & Applied Science | Civil Engineering | Special Topics

MCEN-5898 (1-4) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848-5898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

CHEN-5900 (3) Pharmaceutical Biotechnology

Incorporates biochemistry, pharmaceutical science, and engineering for application in the pharmaceutical industry. Emphasizes microscale mechanisms affecting drug delivery, bioavailability, and stability. Specific topics include thermodynamics of macromolecular conformational stability, crystallization kinetics, interfacial phenomena, and industrial protein folding. Prereq., graduate standing.

College of Engineering & Applied Science | Chemical Engineering

CSCI-5900 (1-6) Master's Level Independent Study

Provides opportunities for independent study at the master's level. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

EMEN-5900 (3) Research Methods

Explores commonly used research methods including analytical, agreement, descriptive, and relational methods; experimental design including incorporation, nesting, blocking, and controlling; threats to the internal and external validity of research. Sampling procedures and considerations, measurement validity and reliability, and managing the research study are also reviewed. Prereq., EMEN 5005 or equivalent. Non-EMP students require instructor permission. Same as TLEN 5750. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

CSCI-5919 (3) Human-Computer Interaction: Survey and Synthesis

Examines interdisciplinary field of human-computer interaction through a comprehensive content and historical survey. Considers new trajectories of inquiry and how the field merges with others. "Social computing" is emphasized as a central topic. Students across disciplines will find the course foundational for understanding human-centered technology matters, including computer scientists; social scientists; and business and media arts students. Recommended prereq., CSCI 4839 or 5839. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Graphics

CVEN-5919 (3) Sustainable Community Development 1

Focuses on the fundamental tools necessary to address sustainable community development projects in low-income communities (LICs). Topics include: human development, sustainable development, and presentation of an integrative and participatory framework for development projects in LICs. The framework consists of a combination of development and engineering project management tools. Framework is illustrated through case studies and student-driven team projects. Restricted to senior or graduate students. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Special Topics

TLEN-5920 (1-6) Independent Study

Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

CSCI-5929 (3) Human-Computer Interaction: Survey and Synthesis 2

Studies recent advances in human-computer interaction through critical analysis of influential papers and self-guided research. Examines new paradigms in input, output, and visualization for technology design and interaction. Considers innovative methods to assess various population design and technological needs. Studies in computer-related fields, social science, business, media arts, and communications benefit learning about human-centered computing research. Recommended prereq., CSCI 5919.

College of Engineering & Applied Science | Computer Science | Graphics

CVEN-5929 (3) Sustainable Community Development 2

Covers the principles, practices and strategies of appropriate technology as part of an integrated and systems approach to community-based development. Course content areas include technical issues in development, environmental health and communicable disease, appropriate and sustainable technologies with hands-on workshops, and global cooperation in development. Prereq., CVEN 5919. Restricted to seniors and graduate students.

College of Engineering & Applied Science | Civil Engineering | Special Topics

CVEN-5939 (3) Sustainable Community Development Field Practicum

Provides a supervised in-field practicum experience in which the student applies theories and concepts learned in Sustainable Community Development I and II (CVEN 5919 and 5929). Prereq., CVEN 5919 and 5929 or instructor consent. Restricted to students with EDC sub-plan. Prerequisites: Restricted to students with EDC Sub-Plan.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

ASEN-5940 (3-6) Engineering Research Internship

Grants credit to foreign visiting graduate students for conducting research within the Aerospace Engineering Sciences department. Credits can be transferred to the student's home institution. CU-Boulder students may also receive credit for conducting research outside of the university, either overseas or in the US. Restricted to students in final year of undergraduate work and graduate students from CU-Boulder or foreign institutions. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CSCI-6000 (1) Introduction to the Computer Science PhD Program

Instructs new Ph.D students in Computer Science how to obtain a Ph.D and how to become an effective member of the computer science research community. Makes students aware of formal requirements, educational objectives, and research themes. Provides evaluative criteria and guidelines for all objectives to be achieved. Restricted to new Ph.D students in Computer Science. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science General Computer Science

ASEN-6008 (3) Interplanetary Mission Design

Exploration of principles and methods related to the design and construction of trajectories for interplanetary mission design. Some topics covered include: two-and three-body motion, gravity assists, maneuver computation, navigation, numerical integration, and construction of orbits. The main focus is on simple ballistic mission designs, such as Galileo or Cassini, however, libration point trajectories will also be covered. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-6009 (1-2) Special Topics Seminar

Presents research and developments in each department's focus areas. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-6010 (3) Advanced Spacecraft Dynamics and Control

Studies the dynamic modeling and control of spacecraft containing multiple momentum exchange devices, and/or flexible spacecraft components. Will develop nonlinear feedback control algorithms, explore singularity avoidance strategies. The second half of the course derives analytical methods (D'Alembert's equations, Lagrange's equations, Boltzmann Hamel equations) to model a hybrid rigid/flexible spacecraft system. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prereq., ASEN 5010 or equivalent or instructor consent. Repeatable for credit up to 6 total credit hours. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech



Courses

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ASEN-6013 (3) High Speed Propulsion

Covers air-breathing and rocket propulsion cycles, their relative performance trade-offs, and how they fit within the context of a vehicle system. Specific emphasis will be placed on fundamental cycle analyses, component level design, and propulsion/airframe integration for rockets, turbojets, ramjets, scramjets, combined cycles, and other advanced propulsion concepts. Prereq., ASEN 4013 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Thermodynamics and Propulsion](#)

ASEN-6014 (3) Spacecraft Formation Flying

Studies the dynamic modeling and control of spacecraft formations orbiting about a planet. Investigate linear and nonlinear relative motion descriptions, rectilinear and curvilinear coordinates, orbit element difference based descriptions, J2-invariant relative orbits, as well as Lyapunov-based relative motion control strategies. Prereq., ASEN 5050 or equivalent, or instructor consent. May be repeated up to 6 total credit hours.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Systems and Control](#)

ECEN-6016 (1-3) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Optics](#)

ASEN-6020 (3) Optimal Trajectories

Introduces the theory and practice of trajectory optimization. The general theory behind optimization and optimal control will be introduced with an emphasis on the properties of optimal trajectories. The main application will be to space trajectories, but other applications will also be considered. Prereq., ASEN 5050 or instructor consent. Recommended prereq., ASEN 5014. Prerequisites:

Restricted to Graduate Students only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-6021 (3) Viscous Flow

Studies low Reynolds number flows, including incompressible and compressible laminar boundary layer theory; similarity theory; and separation, transition, and turbulent boundary layers. Prereq., ASEN 5051 or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-6024 (3) Nonlinear Control Systems

Introduces the analysis and control design methods for nonlinear systems, including Lyapunov and Describing Function methods. Prereq., ASEN 5014. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ASEN-6028 (3) Graduate Projects II

Exposes MS and PhD students to leadership positions in project management and systems engineering while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this second semester of the two-semester course sequence: requirements definition, design and design review, build, test, and verification. Prereq., ASEN 5018. Recommended prereq., ASEN 4138, or 5148, or 5158. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-6037 (3) Turbulent Flows

Studies turbulent closure methods and computational procedures used to solve practical turbulent flows. Emphasizes multi-equation models used with time-averaged equations to calculate free-turbulent shear-flows and turbulent boundary layers. Employs spectral methods in direct and large-eddy simulation of turbulence. Prereq., ASEN 5051 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-6060 (3) Advanced Astrodynamics

Covers Lagrangian and Hamiltonian formalisms for astrodynamics problems, the computation and characterization of space trajectories in highly dynamic environments, computation of periodic orbits, stability analysis of orbital motion, and development of analytical theories for dynamics. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-6061 (3) Molecular Gas Dynamics and DSMC

Describes the composition and flow of gases on a microscopic level to examine the behavior of the molecules that make up a macroscopic flow system. Thermodynamic properties, transport phenomena, and the governing Boltzmann Equation are derived from molecular collision dynamics and the kinetic theory. The Direct Simulation Monte Carlo method is introduced with applications. Restricted to graduate students or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

ASEN-6070 (3) Satellite Geodesy

Focuses on the measurement of the Earth's gravitational field, rotational characteristics, and shape using Earth and space-based tracking of artificial satellites. Particular emphasis on satellite altimetry and satellite gravity measurements. Prereq., ASEN 3200 or instructor consent. Credit not granted for this course and ASEN 5060. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6080 (3) Introduction to Statistical Orbit Determination 2

Continuation of ASEN 5070. Emphasizes orthogonal transformation techniques such as Givens and Householder, square root filtering and smoothing, and considers covariance analysis. Also nonlinear filters and dynamic model compensation techniques. Requires term project that involves the application of many of the techniques required for precise orbit determination. Prereq., ASEN 5070. Formerly ASEN 5080. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Astrodynamics & Orbital Mech

ASEN-6090 (3) Advanced Global Navigation Satellite Systems: Software and Applications

Focuses on high-precision applications of Global Navigation Satellite Systems (GNSS) and the software tools that are needed to achieve these precisions. Topics include precise orbital determination, reference frames, atmospheric delays, relativity, clock models, ambiguity resolution, and scientific applications. Prereq., ASEN 5090. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

ASEN-6091 (3) Global Navigation Satellite System (GNSS) Receiver Architecture

Investigates the overall architecture of satellite navigation receivers: including both the analog radio frequency conditioning (antenna to the analog-to-digital converter) and the various signal processing algorithms. Such treatment of the operation of the receiver will provide insight into the trade-offs that go into GNSS as well as the more broad generic spread spectrum receiver design. Recommended prereq., ASEN 5090. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Aerospace Engineering | Global Positioning Systems

ASEN-6107 (3) Nonlinear Finite Element Methods

Continuation of ASEN 5007. Covers the formulation and numerical solution of nonlinear static structural problems by finite element methods. Emphasizes the treatment of geometric nonlinearities and structural stability. Prereq., ASEN 5007. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ECEN-6139 (3) Logic Synthesis of VLSI Systems

Studies synthesis and optimization of sequential circuits, including retiming transformations and don't care sequences. Gives attention to hardware description languages and their application to finite state systems. Also includes synthesis for testability and performance, algorithms for test generation, formal verification of sequential systems, and synthesis of asynchronous circuits. Prereqs., ECEN 5139 and CSCI 5454.

College of Engineering & Applied Science Electrical & Computer Engineering VLSI CAD Methods

ECEN-6144 (3) Electromagnetic Boundary Problems

Provides mathematical and physical fundamentals necessary for the systematic analysis of electromagnetic fields problems. Covers basic properties of Maxwell's equations, potentials and jump conditions; scattering and diffraction by canonical structures; Green's functions, integral equations and approximate methods. Requires some maturity in electromagnetics. Prereq., ECEN 5114 or 5134 or instructor consent. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science Electrical & Computer Engineering Electromagnetics

CVEN-6161 (3) Advanced Mechanics of Materials 2

Fundamentals of continuum mechanics, finite deformations, Lagrangian finite strains, Cauchy and Piola Kirchoff stress tensors, plasticity and thermo-elasticity, elements of damage mechanics, elements of fracture mechanics, rheological and viscoelastic theories, and modern experimental techniques. Recommended prereq., CVEN 5161.

College of Engineering & Applied Science Civil Engineering Mechanics

MCEN-6163 (3) Elastic Waves

Effect of transient localized sources or dislocations in an elastic medium is studied. Modeling and application of waves in rods, beams, and plates is emphasized. In addition, ultrasonic, nondestructive evaluation and seismological problems are discussed. Prereq., MCEN 5023 or equivalent. Recommended MCEN 5040 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-6184 (3) Structure and Properties of Polymers

Emphasizes the relationship between molecular structure and macroscopic properties. Structural aspects include chain conformation, configuration, and the crystalline and amorphous states. Discusses physical and mechanical properties with a focus on solution and phase behavior, transitions of bulk polymers, and rubber and viscoelastic behavior. Prereq., graduate standing and MCEN 5024 and 5044, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Materials

ASEN-6210 (1-3) Remote Sensing Seminar

Covers subjects pertinent to remote sensing of the Earth, including oceanography, meteorology, vegetation monitoring, and geology. Emphasizes techniques for extracting geophysical information from satellite data. Course requirement for Remote Sensing Certificate. Restricted to graduate students. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Remote Sensing

CHEN-6210 (3) Microhydrodynamics of Suspensions and Colloids

Focuses on fluid mechanics and colloid science of suspensions of particles, cells, and drops. Covers fundamentals, applications, and research frontiers. Prereq., CHEN 5210 or equivalent.

College of Engineering & Applied Science | Chemical Engineering

ASEN-6220 (3) Topics in Remote Sensing

Covers infrared and microwave techniques for remote sensing, emphasizing oceanographic applications, fundamentals of electromagnetic radiation, remote sensing instrumentation (radars and radiometers), and conversion of sensory data to geophysical parameters, including sea surface topography, temperature, and atmospheric moisture. Prereq., graduate standing and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Remote Sensing

MCEN-6228 (3) Special Topics

Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

CSCI-6268 (3) Foundations of Computer and Network Security

Studies methods to protect information, and the ability to process and move information, from theft, misuse, tampering, destruction, and unauthorized access. Introduces foundational topics of computer and network security, including security models, cryptography, and authentication protocols. Prereq., CSCI 5273. Same as TLEN 5550. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Software Engineering

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MCEN-6278 (3) Special Topics

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Special Topics](#)

CSCI-6302 (3) Speech Recognition and Synthesis

Introduction to automatic speech recognition and understanding, conversational agents, dialogue systems, and speech synthesis/text-to-speech. Topics include the noisy channel model, Hidden Markov Models, A* and Viterbi decoding, language modeling (N-grams, entropy), concatenative synthesis, text normalization, dialogue and conversation modeling. Prereqs., CSCI 5582 or 5832, or LING 5200, and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[Artificial Intelligence](#)

CVEN-6323 (3) Urban Stormwater Infrastructure Systems

Evaluation and design of more sustainable urban stormwater infrastructure systems including street inlets, on-line and off-line surface storage and infiltration systems. Integrated design for major, minor, and micro storms to provide flood control and drainage as well as control of pollution from stormwater runoff. Simulation and optimization models will be used.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Fluid Mechanics & Water Resour](#)

ASEN-6327 (3) Computational Fluid Mechanics

Introduction to advanced computational methods for the solution of fluid mechanics problems on the computer with emphasis on nonlinear flow phenomena. Prereq., ASEN 5417 or instructor consent. Formerly ASEN 5327. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

CVEN-6333 (3) Introduction to Multi-Scale Variability and Scaling in Hydrology

Provides a foundational physical understanding of channel networks, runoff, precipitation, and evapotranspiration at multiple spatial scales of drainage basins using modern analytical concepts for understanding non-linear phenomena, e.g., fractals, multifractals, statistical scaling, criticality, and renormalization. Prereq., CVEN 3313, 5333, 5454, and an upper-division course in probability, or equivalents.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

ASEN-6337 (3) Remote Sensing Data Analysis

Reviews satellite remote sensing instrumentation and methods. Student teamwork involves real satellite data for applications in oceanography, atmospheric science, and terrestrial physics. Students develop problem-solving skills and use the internet to gather satellite and in situ data to address chosen problems. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Remote Sensing

ASEN-6367 (3) Advanced Finite Element Methods for Plates, Shells, and Solids

Continues ASEN 5007. Covers more advanced FEM applications to linear static problems in structural and continuum mechanics. Focuses on modeling, formulation, and numerical solutions of problems modeled as plates, shells, and solids. Includes an overview of advanced variational formulations. Prereqs., introductory graduate level course in FEM and familiarity with linear algebra. Formerly ASEN 5367. Credit not granted for this course and ASEN 5367. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat. & Struc Dynam

CVEN-6383 (3) Flow and Transport through Porous Media

Studies basic physics of flow and transport of water, air, and other fluid mixtures through a porous medium. Course topics are relevant to applications in contaminant hydrology, contaminant transport in aquifers, hazardous waste management, geohydrology, soil physics, and geoenvironmental engineering.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-6393 (1) Hydrologic Sciences and Water Resources Engineering Seminar

Provides a broad introduction to a variety of research topics from hydrologic sciences and water resources engineering. Offered as a one-hour weekly seminar by the departmental water faculty, graduate students, and external speakers. Restricted to graduate students in engineering. Prerequisites: Restricted to graduate student Civil (CVEN) Engineering students only.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CSCI-6402 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. Prereqs., graduate standing, or at least one course at the 3000-level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science will be presumed. Same as EDUC 6504, LING 6200, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CVEN-6404 (3) Advanced Aquatic Chemistry

Examines aquatic equilibria, corrosion, colloid and polymer chemistry, behavior of natural organic matter in engineered systems, and application of personal computers to model aquatic equilibria. Requires a term project. Prereq., CVEN 5402. Offered in the spring every other year. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Environmental

CVEN-6414 (3) Aquatic Surfaces and Particles

Examines the role of surfaces and particles in the fate and transport of contaminants in the aquatic environment. Emphasizes modeling of absorption, dissolution, precipitation, surface-catalyzed reactions, and coagulation and filtration kinetics. Prereqs., CVEN 5404 or GEOL 5280.

College of Engineering & Applied Science | Civil Engineering | Environmental

ASEN-6427 (3) Advanced Computational Fluid Dynamics

Introduces computational techniques particularly applicable to high-speed gas flows that contain shocks. Complicated numerical methods are developed from relatively simple numerical modules. Prereq., ASEN 5417 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Aerodynamics & Fluid Mechanics

CSCI-6454 (3) Advanced Algorithms

Topics include matching and network flows, matroids, computational geometry, parallel computation (PRAM, hypercube, mesh). Also includes Vlsi, database theory, distributed computation, cryptography, robotics, scheduling, probabilistic algorithms, approximation algorithms, average case, and amortized analysis, time permitting. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CVEN-6511 (3) Nonlinear Finite Element Analysis of Solids and Porous Media

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Prereq., PHYS 1110. coreq., APPM1360.

College of Engineering & Applied Science | Civil Engineering | Mechanics

ASEN-6517 (3) Computational Methods In Dynamics

Covers modeling, computational algorithms and their computer implementation for both linear and nonlinear dynamical systems. Topics covered include transient analysis, wave propagation, multiphysics analysis, and their significant engineering applications. Prereq., ASEN 5022. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Structures, Mat, & Struc Dynam

ASEN-6519 (1-3) Special Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CVEN-6525 (3) Nonlinear Analysis of Framed Structures

Motivated by Performance Based Engineering, this course provides students with the proper theoretical underpinnings of nonlinear static and dynamic analysis of framed structures along with, exposure to the corresponding programming techniques in Matlab. First part covers traditional topics related to plasticity; second part focuses on the finite element formulation (with emphasis on flexibility based ones) for geometric and Material nonlinearities; nonlinear pushover and transient analysis of frame structures. Prereq., CVEN 4525/5525 or equivalent; proficiency in Matlab.

College of Engineering & Applied Science | Civil Engineering | Structures

CVEN-6595 (3) Earthquake Engineering

Analyzes and designs structures for earthquake loadings. Gives attention to earthquake ground motions, attenuation laws, and seismic hazard analysis. Also involves numerical methods for time-domain and frequency-domain analysis, response of linear and nonlinear structures, elastic and inelastic response spectra, construction of design spectra, soil-structure interaction analysis, and seismic design methods and building code requirements. Prereq., CVEN 5111 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Civil Engineering | Structures

CSCI-6622 (3) Advanced Machine Learning

Covers advanced theoretical and practical topics in machine learning and latest developments in the field. Students conduct original research, either applied or theoretical, and present their results. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-6676 (3) Numerical Methods for Unconstrained Optimization

Looks at modern computational methods for solution of unconstrained optimization problems, nonlinear leastsquares, and systems of nonlinear equations. Techniques for building algorithms to

solve problems with special structure. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-6686 (3) Numerical Methods for Constrained Optimization

Covers computational methods for constrained optimization. Topics include basic theory, methods for quadratic programming, active set strategies for linear constraints, and penalty and successive quadratic programming methods for nonlinearly constrained problems. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-6800 (1-6) Master of Engineering Project

Students seeking the master of engineering degree must complete a creative investigation project, including a written report, supervised by a member of the graduate faculty. Prereq., completion of 21 hours towards the ME degree. Prerequisites: Restricted to graduate student Computer Sciences students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

ECEN-6800 (3) Master of Engineering Report

College of Engineering & Applied Science | Electrical & Computer Engineering | General

EMEN-6805 (1) Capstone Preparation

Students determine capstone research question, conduct literature review, develop research methodology and project plan, write a proposal, and select capstone committee. Restricted to students who have completed 21 credit hours toward the EMEN degree. Prereq., either EMEN 5900 if choosing an applications-oriented capstone or EMEN 5825 if choosing a business plan capstone, and selection of a capstone advisor. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

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CSCI-6810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

[College of Engineering & Applied Science](#)
[Computer Science](#)
[General Computer Science](#)

EMEN-6810 (2) Capstone Completion

Continues EMEN 6805 as the second half of a two-course sequence for the engineering management capstone project. Students conduct agreed-upon research, research and analyze results, develop recommendations, write a final report, and present the project to the committee for evaluation. Prereq., EMEN 6805. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

[College of Engineering & Applied Science](#)
[Engineering Management](#)

CHEN-6820 (3) Biochemical Engineering Fundamentals

Covers design and operation of fermentation processes, microbial and enzyme kinetics, multiple substrate and multiple species of fermentation, regulation of enzyme activity, energetics of cellular growth, immobilized enzyme and cell reactors, and transport phenomena in microbial systems and downstream processing. Prereq., graduate standing in CHEM, CHEN, or MCDB, or instructor consent.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

EMEN-6830 (3) Project Management Capstone

Evaluate project management practices in the student's work unit, company, or in another organization. Identify strengths and weaknesses of the major product management processes as outlined in the Project Management Body of Knowledge (PMBOK). Opportunities for improvement and methods for implementation are expected. Prereqs., EMEN 5030 and 5032 and acceptance into the Project Management Certification option. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

CVEN-6834 (1-3) Special Topics

College of Engineering & Applied Science | Civil Engineering | Environmental

MCEN-6848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

ASEN-6849 (1-6) Independent Study

Studies special projects agreed upon by student and instructor.

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

MCEN-6898 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

College of Engineering & Applied Science | Mechanical Engineering | Special Topics

CHEN-6940 (1) Master's Candidate

College of Engineering & Applied Science | Chemical Engineering

CSCI-6940 (1) Master's Degree Candidacy

For students who need to be registered for the purpose of taking the master's comprehensive exam and who are not otherwise registered. Credit does not count toward degree requirements. Graded on a pass/fail basis. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

CVEN-6940 (1) Master's Degree Candidate

College of Engineering & Applied Science | Civil Engineering | Building Systems

ECEN-6940 (1) Master's Degree Candidate

Numbered ECEN 6940-6949.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

TLEN-6940 (1) Candidate for Degree

Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

College of Engineering & Applied Science | Telecommunications

MCEN-6949 (1) Master's Degree Candidacy

College of Engineering & Applied Science | Mechanical Engineering | Thesis

ASEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Aerospace Engineering | Specialized Courses

CHEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Chemical Engineering

CSCI-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | General Computer Science

ECEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Electrical & Computer Engineering | General

TLEN-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

College of Engineering & Applied Science | Telecommunications

MCEN-6959 (1-6) Master's Thesis

College of Engineering & Applied Science | Mechanical Engineering | Thesis

TLEN-6960 (1-4) Telecommunications Project

College of Engineering & Applied Science | Telecommunications

CSCI-7000 (1-4) Current Topics in Computer Science

Covers research topics of current interest in computer science that do not fall into a standard subarea. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | General Computer Science

TLEN-7000 (1-6) Current Topics in Telecommunications

Studies research topics of current interest in telecommunication and networking. May be repeated up to 8 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

CSCI-7111 (3) Topics in Parallel Processing

Content varies, but subjects include parallel machine architecture, parallel algorithms, languages for parallel computation, and applications. Takes subject matter from current research. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Computer Science | Parallel Processing

CVEN-7111 (3) Advanced Structural Dynamics

Includes general vibrations of civil engineering structures and their response to various types of time-dependent loads. Prereq., CVEN 5111.

College of Engineering & Applied Science | Civil Engineering | Mechanics

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MUEL-1416 (2) Introduction to Hand Percussion

Studies the literature and technique of hand percussion. Emphasizes African and Latin percussion techniques. Designed for non-music majors. May be repeated up to 6 total credit hours. Restricted to non-College of Music majors only. Formerly EMUS1416. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-1832 (3) Appreciation of Music

Provides a basic knowledge of primarily Western music literature and development of discriminating listening habits. Restricted to nonmusic majors. Formerly EMUS 1832. Approved for arts and sciences core curriculum: literature and the arts. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2091 (2) Intro to Audio Recording

Introduces and explores basic concepts in audio recording from microphones to digital audio workstations. Also focuses on development of critical listening skills. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2184 (1) Voice Class

Continuation of MUEL 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., MUEL 1184. Restricted to non-College of Music majors only. Formerly EMUS 2184. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2752 (3) Music in American Culture

Offers a stylistic and historical examination of trends that have influenced present-day music in the U.S. Formerly EMUS 2752. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2772 (3) World Musics

Highlights music outside Western art tradition, using current ethnomusicological materials. Spring semester focuses on musical cultures of the Americas, Africa, and Europe; fall semester focuses on musical cultures of Asia and Oceania. May be repeated up to 6 total credit hours. Formerly EMUS 2772. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2842 (3) American Musical Theatre

Provides an overview of the role of musical theatre in U.S. culture, emphasizing the 20th century Broadway musical. Restricted to non-College of Music majors only. Formerly EMUS 2842.

Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2852 (3) Music of the Rock Era

Examines popular music, concentrating on the U.S. after 1950. Considers precursor styles (e.g., blues folk) and contributions to the new rock style; discusses the evolution of rock style from 1960 through the 1990s. Formerly EMUS 2852. Approved for the arts and sciences core curriculum: literature and the arts. Offered spring only. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2862 (3) American Film Musical, 1926-1954

Examines the development of filmed musicals from the beginning of sound movies through the Golden Age of Musicals. Emphasizes analysis and relationships of characters, songs, and incidental music. Restricted to non-College of Music majors only. Formerly EMUS 2862. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-2872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explores, discuss, debate and develop deeper understanding of Heavy Metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct are also discussed. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-3051 (2) Basic Composition

Introduces the processes, materials, and forms of composition through the writing and performance of short musical works. Open to any student who already has rudimentary musical knowledge. Restricted to non-College of Music majors only. Formerly EMUS 3051. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events, and people most important to its evolution. For nonmusic majors. Formerly EMUS 3642. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course.

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MUEL-3822 (3) Words and Music

Explores the interaction between words and music in song. Students will consider how such features as rhyme, rhythm, tone, and the connotations of particular words contribute to meaning in poetry; how rhythm, tempo, dynamics, mood, and instrumentation contribute to meaning in music; and how words and music coalesce in song to make a new meaning. Restricted to non-College of Music majors only. Formerly EMUS 3822. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-3832 (3) Music in Literature

Addresses literature that seeks either to explore the meaning of music or to make music out of words. Students will consider how musical concepts and techniques can be incorporated into poetry and prose, and will analyze the roles that writers have attributed to music in society, politics, and the life of the individual. Restricted to non-College of Music majors only. Formerly EMUS 3832. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-3872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explore, discuss, debate and develop deeper understanding of Heavy metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct area also discussed.

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MUEL-4012 (3-6) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Restricted to non-College of Music majors only. Formerly EMUS 4012.

Prerequisites: Restricted to non-College of Music majors only.

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MUEL-4081 (3) Introduction to Music Technology

Surveys the various tools and techniques in the field of music technology. Topics include an introduction to basic synthesis, musical instrument digital interface (MIDI) sequencing, audio sequencing, digital signal processing, music notation, and a historical perspective on electronic music. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

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MUEL-4121 (3) Topics in Music Technology

Exploration of issues, techniques and tools of music technology. Topics vary from term to term and may include: interactive system for performance, teaching, and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures and work sessions will support student projects. Prereqs., MUSC 4081 or MUEL 4081 or instructor consent required. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

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MUSC-1325 (1) Piano Sight Reading

Studies techniques for improving sight-reading skills at the keyboard, with practical work in solo, ensemble, and choral literature. Also covers score reading and transposition. Restricted to piano majors instructor consent. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2325 (2) Applied Harmony for the Keyboard

Provides an intensive study and application of the harmonic structure of music in a variety of keyboard skills: figured bass realization, chord progressions, harmonization, improvisation, transposition, on-sight harmonic analysis, and playing by ear. Prereqs., MUSC 1111, 1131, and 1325. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2365 (2) Introduction to Accompanying

An overall study in the art of working with instrumentalists and singers including repertoire and orchestral reductions. Requires performance with a student instrumentalist or singer to be critiqued and coached by class and instructor. Prereq., piano major or instructor consent. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3345 (2) Piano Pedagogy 1

Discusses teaching philosophies, objectives, and procedures. Examines and evaluates methods and materials. Studies practical aspects with which the private teacher is concerned. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3355 (2) Piano Pedagogy 2

Materials and techniques for teaching piano with a focus on the intermediate level student. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered only in spring of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-3445 (1) Practicum in Piano Teaching: Elementary Level

Provides practical experience teaching piano at the elementary and early intermediate levels under faculty supervision. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 3345, 3355. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-4255 (2) Service Playing Techniques

Study of church music for liturgical and non-liturgical denominations; includes hymn playing, anthem accompaniments, basics of conducting from the organ console and improvisation, and selection of organ music appropriate to the requirements of the church year and other special services. Same as MUSC 5255.

College of Music | Music | Keyboard

MUSC-4285 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4295. Same as MUSC 5285.

College of Music | Music | Keyboard

MUSC-4295 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4285. Same as MUSC 5295.

College of Music | Music | Keyboard

MUSC-4325 (2) Keyboard Literature 1

Surveys keyboard music from 1600 to 1830. Restricted to College of Music majors only. Offered fall semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-4335 (2) Keyboard Literature 2

Surveys keyboard music from 1830 to the present. Restricted to College of Music majors only. Offered spring semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-4405 (2) Basso-Continuo Accompaniment

Studies the history, theory, and practice of Basso-continuo accompaniment. Provides practical instruction in realizing harmony from a given bass line (figured or unfigured), projecting affect, and creating dynamics at the harpsichord. Emphasizes individual cognition and creativity. Recommended prereqs., MUSC 2325 and PMUS 1586. Same as MUSC 5405. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-5215 (1-2) Studies in Piano Teaching

Studies the practical aspects and techniques for teaching piano at the intermediate and advanced levels in pre-college and college settings, as well as teaching group piano at the college level. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 5305 and 5315. Restricted to graduate piano majors. Prerequisites: Restricted to Graduate Students only.

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MUSC-5255 (2) Service Playing Techniques

Same as MUSC 4255.

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MUSC-5285 (3) Organ Survey

Same as MUSC 4285.

College of Music | Music | Keyboard

MUSC-5295 (3) Organ Survey

Same as MUSC 4295.

College of Music | Music | Keyboard

MUSC-5305 (2) Piano Pedagogy Group Techniques

Discusses materials and techniques for teaching beginning piano students of various ages in studio and class settings. Special attention given to adult classes. Includes an introduction to educational technology used in group instruction. Offered fall of odd-numbered years.

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MUSC-5315 (2) Piano Pedagogy: Intermediate Literature

Surveys repertoire at the intermediate level and discusses teaching techniques. Explores issues related to intermediate and advanced piano performance, such as performance anxiety, physical and psychological well-being of the performer, and the development of technique. Introduces educational technology relevant to intermediate teaching. Offered spring of even-numbered years.

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MUSC-5325 (2) Keyboard Literature 1

Examines areas of style, genre, and performance practice in selected keyboard music from 1600 to 1830. Emphasizes student presentation of specific topic areas. Offered fall semester of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5335 (2) Keyboard Literature 2

Examines areas of style, genre, and performance practice in selected areas of keyboard music from 1830 to the present. Emphasizes student presentation of specific topic areas. Offered spring semester of odd-numbered years.

College of Music | Music | Keyboard

MUSC-5345 (2) Research: Piano Literature and Pedagogy

Looks at individual or group research related to piano pedagogy or literature for piano. May be repeated upto 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5365 (2) Advanced Accompanying

An in-depth study of both vocal and instrumental collaborative repertoire in individually assigned projects, coached by collaborative faculty and others. May be repeated up to 12 total credit hours.

Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5375 (2) Opera Coaching for Pianists

Teaches skills for opera coaches and rehearsal pianists. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

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MUSC-5405 (2) Basso-Continuo Accompaniment

Same as MUSC 4405. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5425 (2) Collaborative Literature for Piano with Winds, Brass, and Percussion

Study of all forms of wind, brass and percussion repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered fall only.

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MUSC-1325 (1) Piano Sight Reading

Studies techniques for improving sight-reading skills at the keyboard, with practical work in solo, ensemble, and choral literature. Also covers score reading and transposition. Restricted to piano majors instructor consent. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-1326 (1) Guitar Musicianship

Activities in sight-reading, fretboard harmony and comprehension of harmony and texture. Some work will be tied to the repertoire being studied in studio lessons. Open only to students with an emphasis on guitar performance in their degree plan. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-1326 (1) Guitar Musicianship

Activities in sight-reading, fretboard harmony and comprehension of harmony and texture. Some work will be tied to the repertoire being studied in studio lessons. Open only to students with an emphasis on guitar performance in their degree plan. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2366 (2) Guitar Accompanying

Survey of accompanying repertoire for guitar with solo instruments (flute, violin, voice, etc.), including introductory work in basso continuo, playing/improvising from chord charts, and arranging accompaniments from musical scores. Prereq., MUSC 1326. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3176 (2) Conducting 1

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3186 (2) Conducting II

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Prereq., MUSC 3176. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-3271 (2) Basic Improvisation

The exploration of basic music improvisation; performance in various musical styles. Prereq. MUSC 2111 or instructor consent. Offered spring of even-numbered years.

College of Music | Music | Choral and Instrumental Music

MUSC-4106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

PMUS-4517 (2) Orchestral Repertoire

Trains practice techniques for String Players to master orchestral excerpts needed for all orchestra and festival auditions. Through careful listening students learn to improve the four basic elements of orchestral excerpt preparation: Rhythm, Intonation, Tone Quality, Interpretation. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5026 (2) Percussion Literature

In-depth investigation of major original solo works for percussion, significant ensemble literature including chamber and large ensembles, and selected transcriptions. Prereqs., graduate standing in music and instructor consent.

College of Music | Music | Choral and Instrumental Music

MUSC-5036 (2) Brass Literature

Investigates major original solo works for trumpet, horn, trombone, euphonium, and tuba, and ensemble literature including chamber and large settings. Offered every other spring semester.

College of Music | Music | Choral and Instrumental Music

MUSC-5106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. For graduate students. Same as MUSC 4106.

College of Music | Music | Choral and Instrumental Music

MUSC-5136 (2) Advanced Conducting

Offers advanced work in conducting. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5156 (2) Symposium in Choral Musi.

Provides an advanced study of choral repertoire by style period. Required of all choral graduate students for a minimum of two semesters. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5246 (3) Jazz Improvisation and Analysis

A study of improvisation through melodic and harmonic analysis of jazz compositions, transcriptions, and the study of historic jazz solos as played by jazz masters. Recommended prereq., MUSC 3071. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5256 (3) Jazz Studies Administration and Pedagogy

Studies the organization and administration of collegiate jazz programs. Topics include curriculum, program philosophy, teaching techniques, funding, teacher training, and evaluation. Recommended prereq., MUSC 3253. Offered fall only. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5336 (2) Brass Pedagogy

Analyzes pedagogical techniques and philosophies of teaching brass instruments, and examines materials. Offered every other spring semester.

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MUSC-5346 (3) Woodwind Pedagogy

Provides the knowledge and skills to teach woodwind instruments in both private studio and collegiate class settings. Considers pedagogical techniques addressing all levels of instruction. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5356 (2) Jazz Studies Practicum

Studies strategies for developing and implementing academic programs in jazz studies. Includes demonstration teaching by class members. Recommended prereq., MUSC 5256. Offered Spring only. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5666 (2) Chamber Music Literature: Woodwinds

Provides a stylistic-historical survey in various genres from Baroque era to present. May be repeated up to 12 total credit hours. Offered every other spring.

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MUSC-7046 (3) Seminar in Jazz Literature

Provides advanced study in jazz literature and styles. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires class presentations and a major paper or project. May be repeated up to 6 total credit hours. Recommended prereqs., MUSC 5091 and 5642. Restricted to doctoral students. Offered every other year.

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MUSC-1802 (3) Introduction to Musical Styles and Ideas

Introduces the study of music including bibliographic, listening, score reading, critical reading, and writing skills; music terminology; a survey of selected music genres (symphonic and chamber music); and building of general music repertory. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2772 (3) World Musics

Study of music outside western art tradition, using current ethnomusicological materials and methodologies. Spring semester focuses on musical cultures of Africa, the Americas, and Europe; fall semester focuses on musical cultures of Asia and Oceania. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2782 (3) World Musics Survey--Africa, Europe, and the Americas

Use current ethnomusicological materials and methods in the study of music outside the Western art tradition. Usually taught in the spring, MUSC 2782 focuses on music cultures of Africa, Europe, and the Americas. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events and people most important to its evolution. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course. Prerequisites: Restricted to sophomore non-College of Music majors only.

College of Music | Music | Musicology

MUSC-3802 (3) History of Music 1

Surveys Western art music with stylistic analysis of representative works from all major periods through the Baroque. See also MUSC 3812. Prereq., MUSC 2111. Prerequisites: Requires pre-requisite course of MUSC 2111. Restricted to Music majors or graduate students only.

College of Music | Music | Musicology

MUSC-3812 (3) History of Music 2

Surveys Western art music with stylistic analysis of representative works from all major periods after the Baroque. See also MUSC 3802. Prereq., MUSC 2111. Restricted to College of Music majors only. Prerequisites: Requires prerequisite course of MUSC 2111. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4012 (3) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4112 (3) Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Prereq., MUSC 2772. Restricted to junior or senior College of Music majors only. Prerequisites: Requires pre-requisite class of MUSC 2772. Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4142 (3) American Indian Music

Examines Native North American musical cultures, with an emphasis on music as an integral part of religious expression and community life. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4152 (3) East Asian Music

Surveys the development of music in Japan, China and Korea through the in-depth study of particular styles of traditional music. The course emphasizes the study of music and culture, particularly music's relationship to religion, politics, language, literature, dance and theatre. Recommended prereq., MUSC 2772. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4712 (3) Renaissance Music

Provides repertory and analysis of polyphonic music 1400-1600. Prereq., MUSC 3802. Restricted to College of Music majors only. Same as MUSC 5712. Prerequisites: Requires pre-requisite class of MUSC 3802. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Prereq., MUSC 3812. Restricted to College of Music majors only. Same as MUSC 5772. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4802 (3) Studies in 20th Century Music

Offers intensified work in history of music in the 20th century. Topics vary from year to year. Prereq., MUSC 3812. Restricted to junior or senior College of Music majors only. Same as MUSC 5802. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature. Prereq., MUSC 3812 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4872 (3) Late 18th and 19th Century Music

Examines music and writings about music during the Classic and Romantic eras of the Western tradition, 1750-1900. Emphasizes historical and stylistic analysis and current musicological research. Recommended prereq. or coreq., MUSC 3812. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4892 (3) Latin American Music

Explores music of cultures south of the United States, emphasizing the relationships of music and culture in folk, popular, and art styles. Same as MUSC 5892. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-5002 (3) Proseminar in Historical Musicology

Prepares students to pursue independent research in the history of music. Meeting as a seminar, the course focuses on the nature of evidence, methods and tools of research, and theoretical or historiographic issues. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5012 (3) West African Music and Dance

Studies musical and dance traditions and current practices. Prereq., MUSC 4012 or instructor consent. Same as DNCE 5054. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5112 (3) Proseminar in Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Restricted to graduate students who have passed or remediated the World Music portion of their Musicology preliminary exams. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5142 (3) American Indian Music

Examines Native North American musical cultures, emphasizing music as an integral part of religious expression and community life. Restricted to graduate music majors. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5642 (3) Jazz History and Literature

Studies musical trends and cultural forces influencing jazz, with analysis of scales, improvisational styles, melodic and motivic variations, transcriptions, and orchestrations from significant periods in its history. Prereq., MUSC 3642 or instructor consent. Offered spring only.

College of Music | Music | Musicology

MUSC-5712 (3) Renaissance Music

Provides a repertory and analysis of polyphonic music 1400-1600. Same as MUSC 4712.

College of Music | Music | Musicology

MUSC-5722 (1) Sight-Reading Medieval and Renaissance Music Literature

Provides an opportunity to read through, sing, play, study, and discuss ancient repertoires more intensively than is normally possible in either music history lecture classes, seminars, or chamber music ensembles. Evaluation is based on active participation, out-of-class research, and final in-class group-performance projects. Recommended for graduate students in historical musicology and choral conducting. May be repeated up to 6 total credit hours.

College of Music | Music | Musicology

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PMUS-1515 (2) Jazz Piano Class

Offers small group instruction in the concepts and skills required to learn jazz piano. Students not only learn basic techniques required to play jazz but also become familiar with the theory, grammar, and lexicon of the jazz language. May be repeated up to 4 total credit hours. Prereq., PMUS 1205 or instructor consent required. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-1544 (1) Italian Diction

Designed for the understanding of lyric Italian diction, the international phonetic alphabet, and its application to classical singing. Required for freshmen BM voice majors. Offered fall only.
Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-1554 (1) English Diction

Designed for the understanding of lyric English diction, the international phonetic alphabet, and its application to classical singing as well as various musical styles of English classical voice literature. Prereq., MUSC 1544. Restricted to College of Music majors only. Required for Freshmen BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-1802 (3) Introduction to Musical Styles and Ideas

Introduces the study of music including bibliographic, listening, score reading, critical reading, and writing skills; music terminology; a survey of selected music genres (symphonic and chamber music); and building of general music repertory. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2071 (2) Instrumentation

Introduces and studies the instruments of the orchestra and problems of scoring for diverse choirs and full orchestra. Prereqs., MUSC 2101 and 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2081 (2) Prepared for the Soundcheck

Provides an overview of the recording process from the performer's perspective from soundcheck through final mastering. Uses recorded material from in-class sessions. Examines differing approaches to recording as well as current technologies. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2103 (3) Introduction to Music Education

Provides an overview of basic principles and practices of the music education profession. Explores public school music teaching through class discussions, directed observations, and a supervised field experience. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#)
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MUSC-3013 (1) String Class

For music education majors with choral/general emphasis. Develops basic performance skills on two or more string instruments. Addresses teaching strategies and other specialized topics related to string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3023 (1) Woodwind Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3033 (1) Brass Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3133 (2) Teaching General Music I

Provides an overview of general music teaching with emphasis on developmentally appropriate strategies and materials. Required for all music education majors as partial fulfillment of course work leading to K-12 music licensure. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3153 (2) Teaching Woodwind Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3163 (2) Teaching String Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more string instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3193 (2) Vocal Pedagogy and Literature for Young Voices

Provides an overview of vocal anatomy/function, care of the voice, vocal repertoire, teaching strategies, and other specialized topics related to singing instruction in both private studio and public school choral settings. Fall section for instrumentalists; spring section for vocalists. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3223 (2) Teaching Brass Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3253 (2) Jazz Techniques for the Music Educator

Prepares the music educator for successful experiences teaching jazz at the secondary level. Students gain insights into performance and rehearsal techniques for the instrumental jazz ensemble. Explores approaches for teaching jazz theory, improvisation, and selecting literature for young students. Own instrument required for certain classes. Recommended prereqs., MUSC 1111 and 2103. Restricted to College of Music majors only. Offered spring only.

College of Music | Music | Music Education

MUSC-3273 (2) String Pedagogy and Literature

Examines instructional methods/materials and pedagogical approaches appropriate for beginning to advanced string students in private studio, small ensemble, or large ensemble contexts. Topics may include group teaching strategies, as well as contemporary approaches including Rolland and Suzuki. Recommended prereqs., MUSC 2103 and 3163. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3363 (2) Marching Band Techniques

Helps develop the skills needed to administer and teach all aspects of a contemporary high school marching band. Includes drill conception and design, instruction, organization, and administration. Prereqs., MUSC 2103 and EMUS 1287. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-4103 (1) Introduction to Student Teaching

Represents the first half of the professional internship year. Familiarizes students with the schools and music programs in which they plan to student teach. Music placements may consist of elementary and high school, elementary and middle school, or middle school and high school. Prereqs., MUSC 4113, 4313, or 4443; and EDUC 3023. Prerequisites: Requires prerequisite courses of MUSC 4113, 4313, or 4443 and EDUC 3023 or 4023. Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4113 (3) Teaching General Music 2

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Prereqs., MUSC 2103 and 3133. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4133 (3) Student Teaching Practicum

Offers practice teaching under the guidance of a master music teacher. Secondary level. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4143 (2) Developing Children's Choirs

Examines the musical skills, teaching techniques, and administrative procedures necessary for developing a children's choir. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5143. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4153 (1) Percussion Class and Pedagogy

Required of all music education majors. Presents knowledge and skills necessary for music educators to teach young students, including a general understanding of the techniques used in playing and teaching percussion instruments in the school music program. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4163 (2) Choral Literature for School Ensembles

Examination of literature, materials, and methods appropriate for teaching choral music in secondary schools. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4193 (1) Student Teaching Seminar

Required for all music student teachers. Addresses topics of concern to beginning teachers including classroom management, interpersonal skills, legal issues, job search strategies, and teaching portfolio development. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4203 (1) Music Methods Practicum

Taken concurrently with either MUSC 4113, 4313, or 4443. Provides students with opportunities to observe and practice the use of various teaching techniques and relate them to concepts presented in the methods course. Students consult with the instructor to determine appropriate placements in schools. Prereq., MUSC 2103. Coreq., MUSC 4113, 4313, or 4443. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4313 (3) Teaching Choral Music

Examines choral music curricula, instructional materials, and teaching techniques appropriate for secondary choral settings. Also addresses administrative strategies for choral music programs.

Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5313. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4443 (3) Teaching Instrumental Music

Examines instrumental music curricula, instructional materials, and teaching techniques appropriate for rehearsal, class, and lesson settings. Also addresses administration strategies for instrumental music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5442. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4583 (2) Inclusive Music Classroom

Surveys strategies necessary for teaching music to all students, including those with special needs. Offered fall of even-numbered years. Prereqs., MUSC 2103 and 3133. Recommended prereq., MUSC 4113. Restricted to College of Music majors only. Same as MUSC 5583. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-5103 (3) Teaching General Music

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-5143 (2) Developing Children's Choirs

Restricted to College of Music graduate students only. Same as MUSC 4143. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Music Education

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MUSC-2091 (2) Recording Techniques

Provides hands-on training in various audio recording techniques, acoustics, and sound reinforcement, studio maintenance, and troubleshooting. Real-world experience is gained through individual recording projects and College of Music events. Prereq., MUSC 2081 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2101 (2) Semester 3 Theory

Continuation of MUSC 1111. Reviews secondary dominants, secondary leading-tone chords, and modulation. Covers dissonance and chromaticism, including modal mixture, seventh chords with added dissonance, Neapolitan sixth chord, and augmented sixth chords. Provides structural analysis of musical excerpts. Prereq., MUSC 1111. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2103 (3) Introduction to Music Education

Provides an overview of basic principles and practices of the music education profession. Explores public school music teaching through class discussions, directed observations, and a supervised field experience. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-2105 (1) Keyboard-Musicianship 3

Continuation of PMUS 1205. May be repeated up to 12 total credit hours. Prereq., PMUS 1205 or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2111 (2) Semester 4 Theory

Continuation of MUSC 2101. Focuses on advanced chromaticism including modal mixture, altered dominants, voice leading, and chromatic harmony in larger contexts. Examines impressionism and jazz. Also involves composition projects. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2101. Restricted to College of Music undergraduate students only.

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MUSC-2121 (1) Aural Skills Lab, Semester 3

Continuation of MUSC 1131. Studies sight singing of chromatic melodies in major and minor keys (in four clefs). Includes dictation of one- through three-voice examples. Studies harmonic dictation using vocabulary from MUSC 2101. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 1131. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2131 (1) Aural Skills Lab, Semester 4

Continuation of MUSC 2121. Studies sight singing of chromatic and atonal melodies. Includes dictation of one- through three-voice examples. Identifies sonorities studied in MUSC 2111. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2121. Restricted to College of Music undergraduate students only.

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PMUS-2184 (1) Voice Class.

Continuation of Pmus 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., Pmus 1184. Restricted to Musc majors. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-2205 (1) Keyboard-Musicianship 4

Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2325 (2) Applied Harmony for the Keyboard

Provides an intensive study and application of the harmonic structure of music in a variety of keyboard skills: figured bass realization, chord progressions, harmonization, improvisation, transposition, on-sight harmonic analysis, and playing by ear. Prereqs., MUSC 1111, 1131, and 1325. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Keyboard](#)

MUSC-2365 (2) Introduction to Accompanying

An overall study in the art of working with instrumentalists and singers including repertoire and orchestral reductions. Requires performance with a student instrumentalist or singer to be critiqued and coached by class and instructor. Prereq., piano major or instructor consent. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Keyboard](#)

MUSC-2366 (2) Guitar Accompanying

Survey of accompanying repertoire for guitar with solo instruments (flute, violin, voice, etc.), including introductory work in basso continuo, playing/improvising from chord charts, and arranging accompaniments from musical scores. Prereq., MUSC 1326. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Choral and Instrumental Music](#)

MUSC-2608 (1) Alexander Technique

Investigates the discoveries and writings of F. M. Alexander regarding kinesthetic perception and coordination. Applies these contexts to specific musical activities. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-2772 (3) World Musics

Study of music outside western art tradition, using current ethnomusicological materials and methodologies. Spring semester focuses on musical cultures of Africa, the Americas, and Europe; fall semester focuses on musical cultures of Asia and Oceania. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-2782 (3) World Musics Survey--Africa, Europe, and the Americas

Use current ethnomusicological materials and methods in the study of music outside the Western art tradition. Usually taught in the spring, MUSC 2782 focuses on music cultures of Africa, Europe, and the Americas. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-2918 (2) Building Your Music Career

Students acquire the practical skills they need to build their career as professional musicians, as well as explore the many options for putting their music education to work in the marketplace. Students will also explore the state of live music-making today and explore ways to maintain relevance for themselves and their art in an ever-changing world. Formerly MUSC 4918. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Entrepreneurship

MUSC-2988 (1) Introduction to Music Research

Introduces music research and writing skills to provide tools necessary for successful composition of formal research papers. Applies interests and curricular goals to specific topics of student choice. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-2997 (0) Sophomore Proficiency

To be completed by the second semester of the sophomore year. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theses and Recitals

MUSC-3013 (1) String Class

For music education majors with choral/general emphasis. Develops basic performance skills on two or more string instruments. Addresses teaching strategies and other specialized topics related to string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3023 (1) Woodwind Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3033 (1) Brass Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3051 (2) Beginning Composition

For noncomposition majors. Introduction to the craft of musical composition with analysis and writing in various styles. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3061 (2) Jazz Improvisation I

Develops skills in jazz improvisation through practical application of chord/scale relationship, transcription, repertoire, and analysis. Open to all instruments. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3071 (2) Jazz Improvisation II

Continues and expands upon the material presented in MUSC 3061. Reinforcement of ability to create an improvised melody in a range of harmonic contexts including blues, bebop, modal jazz, free jazz, and other styles. Prereq., MUSC 3061 or instructor consent. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3081 (3) Jazz Theory and Aural Foundations

Presents the grammar and syntax of jazz. Acquaints the student with the language of jazz improvisation and various jazz styles. The musician's most valuable tool---the ear---is developed through an in-depth analytical study of jazz masters through harmonic dictation/identification. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-3133 (2) Teaching General Music I

Provides an overview of general music teaching with emphasis on developmentally appropriate strategies and materials. Required for all music education majors as partial fulfillment of course work leading to K-12 music licensure. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3153 (2) Teaching Woodwind Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3163 (2) Teaching String Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more string instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

PMUS-3167 (3) Opera Theatre Stagecraft

Introduction to the processes, materials, and equipment used in theatrical production. Lecture and lab requirements. Lab experiences include introductory work in the opera scenery, property, costume, and electrical shops. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-3176 (2) Conducting 1

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-3186 (2) Conducting II

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Prereq., MUSC 3176. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-3193 (2) Vocal Pedagogy and Literature for Young Voices

Provides an overview of vocal anatomy/function, care of the voice, vocal repertoire, teaching strategies, and other specialized topics related to singing instruction in both private studio and public school choral settings. Fall section for instrumentalists; spring section for vocalists. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3223 (2) Teaching Brass Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3253 (2) Jazz Techniques for the Music Educator

Prepares the music educator for successful experiences teaching jazz at the secondary level. Students gain insights into performance and rehearsal techniques for the instrumental jazz ensemble. Explores approaches for teaching jazz theory, improvisation, and selecting literature for young students. Own instrument required for certain classes. Recommended prereqs., MUSC 1111 and 2103. Restricted to College of Music majors only. Offered spring only.

College of Music | Music | Music Education

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PMUS-3271 (2) Basic Improvisation

The exploration of basic music improvisation; performance in various musical styles. Prereq. MUSC 2111 or instructor consent. Offered spring of even-numbered years.

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MUSC-3273 (2) String Pedagogy and Literature

Examines instructional methods/materials and pedagogical approaches appropriate for beginning to advanced string students in private studio, small ensemble, or large ensemble contexts. Topics may include group teaching strategies, as well as contemporary approaches including Rolland and Suzuki. Recommended prereqs., MUSC 2103 and 3163. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3345 (2) Piano Pedagogy 1

Discusses teaching philosophies, objectives, and procedures. Examines and evaluates methods and materials. Studies practical aspects with which the private teacher is concerned. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3355 (2) Piano Pedagogy 2

Materials and techniques for teaching piano with a focus on the intermediate level student. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered only in spring of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-3363 (2) Marching Band Techniques

Helps develop the skills needed to administer and teach all aspects of a contemporary high school marching band. Includes drill conception and design, instruction, organization, and administration. Prereq., MUSC 2103 and EMUS 1287. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3444 (1) French Diction

Designed for the understanding of lyric French diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of French classical vocal literature. Prereq., MUSC 1554. Recommended prereq., MUSC 3464. Required of Junior BM voice majors. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-3445 (1) Practicum in Piano Teaching: Elementary Level

Provides practical experience teaching piano at the elementary and early intermediate levels under faculty supervision. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 3345, 3355. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-3464 (1) German Diction

Designed for the understanding of lyric German diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of German classical vocal literature. Prereq., MUSC 1554. Restricted to College of Music majors only. Required of sophomore BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events and people most important to its evolution. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course. Prerequisites: Restricted to sophomore non-College of Music majors only.

College of Music | Music | Musicology

MUSC-3802 (3) History of Music 1

Surveys Western art music with stylistic analysis of representative works from all major periods through the Baroque. See also MUSC 3812. Prereq., MUSC 2111. Prerequisites: Requires prerequisite course of MUSC 2111. Restricted to Music majors or graduate students only.

College of Music | Music | Musicology

MUSC-3812 (3) History of Music 2

Surveys Western art music with stylistic analysis of representative works from all major periods after the Baroque. See also MUSC 3802. Prereq., MUSC 2111. Restricted to College of Music majors only. Prerequisites: Requires prerequisite course of MUSC 2111. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-3997 (1) Junior Recital

Prereq., MUSC 2997. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theses and Recitals

MUSC-4001 (2) New Musical Styles and Practices

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered every other year. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4011 (2) 16th Century Counterpoint

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., Musc 2111 and 2131. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4012 (3) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including invention, suite, and fugue. Provides a foundation in species counterpoint; stresses analysis and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4031 (2) Jazz Arranging 1

Study of notation, score layout, transpositions, basic harmonic and melodic analysis, basic chord voicings, and composition for a small and large jazz ensemble. Use of notation software such as Finale or Sibelius. Prereqs., MUSC 2111 and 2131. Recommended prereq., MUSC 3081. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4041 (2) Orchestration

Studies advanced orchestration techniques through score analysis and student projects. Prereq., MUSC 2071 or instructor consent. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4061 (2) Tonal Analysis

Surveys tonal analytical techniques and forms of tonal music, including binary forms, sonata forms, ternary forms, rondo (and others) through study of selected works from the 18th and 19th centuries. Prereqs., MUSC 2111 and 2131. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4071 (2) Post-Tonal Theory and Analysis

Focus on theory and analysis of post-tonal literature pre-1945. Prereqs., MUSC 2111 and 2131. Offered every other fall. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4078 (1) Piano Technician for Pianists

Familiarizes pianists with the development of the modern grand piano, its construction, and the proper terminology of parts and specifications. Trains pianists in minor repairs and adjustments of the grand piano action, and in minor tuning tasks. Recommended restriction, piano majors. Restricted to College of Music majors only. Same as MUSC 5078. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-4081 (3) Introduction to Music Technology

Topics include basic synthesis, musical instrument digital interface (MIDI) sequencing, and music notation by computer. Offered fall and spring. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4091 (2) Jazz Arranging 2

Continuation and expansion of studies in MUSC 4031. Survey and analysis of major composers and arrangers of the idiom. Course focuses on creating several arranging projects for a large jazz ensemble. Prereq., MUSC 4031. Recommended prereq., MUSC 3081. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4101 (1-3) Theory and Aural Skills Review

Reviews tonal harmony, voice leading, and essential aural skills. Includes diatonic triads and seventh chords, modulation, chromaticism, and structural analysis of representative compositions. Prepares graduate students for more advanced work in music theory. Students may register for aural skills only (1 credit), theory only (2 credits), or both theory and aural skills (3 credits). May not be taken pass/fail. For graduate students only. Offered summer and fall. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

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MUSC-4103 (1) Introduction to Student Teaching

Represents the first half of the professional internship year. Familiarizes students with the schools and music programs in which they plan to student teach. Music placements may consist of elementary and high school, elementary and middle school, or middle school and high school. Prereqs., MUSC 4113, 4313, or 4443; and EDUC 3023. Prerequisites: Requires prerequisite courses of MUSC 4113, 4313, or 4443 and EDUC 3023 or 4023. Restricted to College of Music undergraduate students only.

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PMUS-4105 (1) Supervised Accompanying

Assigned projects, both vocal and instrumental, are coached by collaborative piano faculty and others. May involve recital, jury, or master class performances. Prereq., MUSC 1325 and MUSC 2365 or instructor consent. Prerequisites: Requires pre-requisite course of MUSC 1325 and MUSC 2365). Restricted to Music majors or graduate students only.

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MUSC-4106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4111 (2) Composing at the Computer

Discover strategies and techniques for generating and manipulating sound at the computer. Student projects will include compositions, soundscapes, ambient environments, and soundtracks for multimedia. Available to students without prior experience with computer music or composition. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4112 (3) Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Prereq., MUSC 2772. Restricted to junior or senior College of Music majors only. Prerequisites: Requires pre-requisite class of MUSC 2772. Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4113 (3) Teaching General Music 2

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Prereqs., MUSC 2103 and 3133. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4121 (3) Topics in Music Technology

Exploration of issues, techniques, and tools of music technology. Topics vary from term to term and may include: interactive systems for performance; teaching and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures on work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4133 (3) Student Teaching Practicum

Offers practice teaching under the guidance of a master music teacher. Secondary level. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4137 (1) Opera Theatre 1

Addresses issues related to young artist development. Areas of concentration include (but are not limited to) acting technique, resume preparation, audition technique, scene analysis, and role preparation. The acting technique is addressed in this course through textbook reading and exercise. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-4142 (3) American Indian Music

Examines Native North American musical cultures, with an emphasis on music as an integral part of religious expression and community life. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4143 (2) Developing Children's Choirs

Examines the musical skills, teaching techniques, and administrative procedures necessary for developing a children's choir. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5143. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4147 (1) Opera Theatre 2

Continuation of PMUS 4137. Further scene analysis and movement exercises are addressed in this class. May be repeated up to 12 total credit hours. Prereq., PMUS 4137. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-4152 (3) East Asian Music

Surveys the development of music in Japan, China and Korea through the in-depth study of particular styles of traditional music. The course emphasizes the study of music and culture, particularly music's relationship to religion, politics, language, literature, dance and theatre. Recommended prereq., MUSC 2772. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4153 (1) Percussion Class and Pedagogy

Required of all music education majors. Presents knowledge and skills necessary for music educators to teach young students, including a general understanding of the techniques used in playing and teaching percussion instruments in the school music program. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4157 (1-3) Opera Practicum

Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

MUSC-4163 (2) Choral Literature for School Ensembles

Examination of literature, materials, and methods appropriate for teaching choral music in secondary schools. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4167 (1-3) Opera Theatre Lab

Advanced work in the scenery, property, costume, and electrical shops in opera performance. Additional experiences may include positions with opera run crews, the box office, or other supporting areas. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

MUSC-4168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Recommended prereqs., MUSC 2772 or 2782 or 4112. Same as MUSC 5168. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Theory and Composition

MUSC-4191 (2) Advanced Recording

Study of advanced recording techniques and concepts beyond those covered in MUSC 2091 involving multiple microphones for ensemble concerts and recording sessions within and outside of the College of Music. Prereq., MUSC 2091. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4193 (1) Student Teaching Seminar

Required for all music student teachers. Addresses topics of concern to beginning teachers including classroom management, interpersonal skills, legal issues, job search strategies, and teaching portfolio development. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4203 (1) Music Methods Practicum

Taken concurrently with either MUSC 4113, 4313, or 4443. Provides students with opportunities to observe and practice the use of various teaching techniques and relate them to concepts presented in the methods course. Students consult with the instructor to determine appropriate placements in schools. Prereq., MUSC 2103. Coreq., MUSC 4113, 4313, or 4443. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4255 (2) Service Playing Techniques

Study of church music for liturgical and non-liturgical denominations; includes hymn playing, anthem accompaniments, basics of conducting from the organ console and improvisation, and selection of organ music appropriate to the requirements of the church year and other special services. Same as MUSC 5255.

College of Music | Music | Keyboard

MUSC-4285 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4295. Same as MUSC 5285.

College of Music | Music | Keyboard

MUSC-4288 (2-3) Macintosh-based Web Server Fundamentals for Musicians and Educators

Designed for music students. Teaches concepts and skills necessary to develop, host, and maintain Macintosh-based web servers and to create and serve multimedia files including video, MP3, MIDI, and PDF.

College of Music | Music | Interdepartmental Courses

MUSC-4295 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4285. Same as MUSC 5295.

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MUSC-4313 (3) Teaching Choral Music

Examines choral music curricula, instructional materials, and teaching techniques appropriate for secondary choral settings. Also addresses administrative strategies for choral music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5313. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4325 (2) Keyboard Literature 1

Surveys keyboard music from 1600 to 1830. Restricted to College of Music majors only. Offered fall semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4335 (2) Keyboard Literature 2

Surveys keyboard music from 1830 to the present. Restricted to College of Music majors only. Offered spring semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4405 (2) Basso-Continuo Accompaniment

Studies the history, theory, and practice of Basso-continuo accompaniment. Provides practical instruction in realizing harmony from a given bass line (figured or unfigured), projecting affect, and creating dynamics at the harpsichord. Emphasizes individual cognition and creativity. Recommended prereqs., MUSC 2325 and PMUS 1586. Same as MUSC 5405. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-4443 (3) Teaching Instrumental Music

Examines instrumental music curricula, instructional materials, and teaching techniques appropriate for rehearsal, class, and lesson settings. Also addresses administration strategies for instrumental music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5442. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

PMUS-4497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. May be repeated up to 12 credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-4517 (2) Orchestral Repertoire

Trains practice techniques for String Players to master orchestral excerpts needed for all orchestra and festival auditions. Through careful listening students learn to improve the four basic elements of orchestral excerpt preparation: Rhythm, Intonation, Tone Quality, Interpretation. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-4583 (2) Inclusive Music Classroom

Surveys strategies necessary for teaching music to all students, including those with special needs. Offered fall of even-numbered years. Prereqs., MUSC 2103 and 3133. Recommended prereq., MUSC 4113. Restricted to College of Music majors only. Same as MUSC 5583. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4608 (1) Advanced Studies in the Alexander Technique

Continue of MUSC 2608 with greater concentration on utilizing Alexander principles in specialized activity. Prereq., MUSC 2608 or instructor consent. Prerequisites: Requires prerequisite course of MUSC 2608. Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-4712 (3) Renaissance Music

Provides repertory and analysis of polyphonic music 1400-1600. Prereq., MUSC 3802. Restricted to College of Music majors only. Same as MUSC 5712. Prerequisites: Requires pre-requisite class of MUSC 3802. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Prereq., MUSC 3812. Restricted to College of Music majors only. Same as MUSC 5772. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4802 (3) Studies in 20th Century Music

Offers intensified work in history of music in the 20th century. Topics vary from year to year. Prereq., MUSC 3812. Restricted to junior or senior College of Music majors only. Same as MUSC 5802. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature. Prereq., MUSC 3812 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4872 (3) Late 18th and 19th Century Music

Examines music and writings about music during the Classic and Romantic eras of the Western tradition, 1750-1900. Emphasizes historical and stylistic analysis and current musicological research. Recommended prereq. or coreq., MUSC 3812. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4892 (3) Latin American Music

Explores music of cultures south of the United States, emphasizing the relationships of music and culture in folk, popular, and art styles. Same as MUSC 5892. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Entrepreneurship

MUSC-4957 (1-4) Senior Thesis

Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theses and Recitals

MUSC-4958 (2) Community Performances

Designed for the aspiring professional performer. Through classroom theory and off-campus application, acquire skills in programming for and communicating with diverse audiences, marketing & PR, and new paradigms of concert presentation. Will result in an actual musical presentation in the community. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Entrepreneurship

MUSC-4988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 5988.

College of Music | Music | Music Entrepreneurship

MUSC-4997 (1) Senior Recital

Prereq., MUSC 3997. Prerequisites: Requires pre-requisite class of MUSC 3997. Restricted to College of Music undergraduate students only.

College of Music | Music | Theses and Recitals

MUSC-5002 (3) Proseminar in Historical Musicology

Prepares students to pursue independent research in the history of music. Meeting as a seminar, the course focuses on the nature of evidence, methods and tools of research, and theoretical or historiographic issues. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5011 (2) 16th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including FREE, TWO- and THREE-part imitative counterpoint in the style of Palestrina. Provides a foundation in species counterpoint, working towards free counterpoint; stresses analysis and composing in 16th-century styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5012 (3) West African Music and Dance

Studies musical and dance traditions and current practices. Prereq., MUSC 4012 or instructor consent. Same as DNCE 5054. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including INVENTION, SUITE, and FUGUE. Provides a foundation in species counterpoint; stresses analysis and composing in the styles. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5026 (2) Percussion Literature

In-depth investigation of major original solo works for percussion, significant ensemble literature including chamber and large ensembles, and selected transcriptions. Prereqs., graduate standing in music and instructor consent.

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MUSC-5036 (2) Brass Literature

Investigates major original solo works for trumpet, horn, trombone, euphonium, and tuba, and ensemble literature including chamber and large settings. Offered every other spring semester.

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MUSC-5041 (2) Advanced Orchestration

Provides an advanced study of orchestration techniques through score analysis and student projects. Offered fall only.

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MUSC-5061 (3) Advanced Tonal Analysis

Surveys tonal analytical techniques. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5071 (3) Post-tonal Theory and Analysis I

Focuses on theory and analysis of post-tonal literature pre-1945. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall and every other spring. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5078 (1) Piano Technician for Pianists

Same as MUSC 4078. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Interdepartmental Courses

MUSC-5081 (3) Applications in Music Technology

Presents advanced strategies for applying computer technology in several musical disciplines. Emphasizes the use of technology in composition, music theory, and music education. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5091 (3) Contemporary Jazz Theory

Studies contemporary approaches to jazz improvisation and composition. Analysis of innovative composition and improvisation and strategies for integration of the material into a personal vocabulary are explored. Prereq., MUSC 3081. Offered spring only.

College of Music | Music | Theory and Composition

MUSC-5103 (3) Teaching General Music

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-5106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. For graduate students. Same as MUSC 4106.

College of Music | Music | Choral and Instrumental Music

MUSC-5112 (3) Proseminar in Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Restricted to graduate students who have passed or remediated the World Music portion of their Musicology preliminary exams. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5121 (3) Advanced Topics in Music Technology

Conducts advanced research in techniques and tools of music technology. Topics vary from term to term and may include: user interfaces for computer music; advanced sound design; digital modeling of acoustic sounds; computer-aided analysis of sound; modeling music intelligence in real time. Lectures and work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 5081 or instructor consent required.

College of Music | Music | Theory and Composition

MUSC-5136 (2) Advanced Conducting

Offers advanced work in conducting. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

PMUS-5137 (2) Opera Theatre 1

Addresses issues related to young artist development at the graduate level. Areas of concentration will include (but are not limited to) acting technique for singers, resume preparation and scene and character analysis. Students will participate in acting and improvisation exercises. Substantial classical voice study is required and this course is recommended for voice majors only. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5142 (3) American Indian Music

Examines Native North American musical cultures, emphasizing music as an integral part of religious expression and community life. Restricted to graduate music majors. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5143 (2) Developing Children's Choirs

Restricted to College of Music graduate students only. Same as MUSC 4143. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Music Education

PMUS-5147 (2) Opera Theatre 2

Continuation of PMUS 5137. May be repeated up to 12 total credit hours. Prereq., PMUS 5137.

College of Music | Music | Voice

MUSC-5151 (3) Topics in Music Analysis

Analytical study of a specific topic to be determined by the instructor (e.g., German Lieder, Bartok quartets, tonal rhythm, Schenker, etc). Study published analyses representing a variety of methodologies, and produce original analyses. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Recommended prereqs., MUSC 5061, 5071, as appropriate to topic or instructor consent. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5156 (2) Symposium in Choral Music

Provides an advanced study of choral repertoire by style period. Required of all choral graduate students for a minimum of two semesters. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Same as MUSC 4168. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5183 (2) Research in Music Teaching

Introduces basic descriptive, experimental, and qualitative research methods, including sampling, design, data collection, and analysis. Students review published music research and conduct one original research study. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

PMUS-5184 (1) Graduate Voice Class

Teaches solo and choral singing and vocal modeling. Designed for choral and music education graduate students. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5215 (1-2) Studies in Piano Teaching

Studies the practical aspects and techniques for teaching piano at the intermediate and advanced levels in pre-college and college settings, as well as teaching group piano at the college level. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 5305 and 5315. Restricted to graduate piano majors. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5246 (3) Jazz Improvisation and Analysis

A study of improvisation through melodic and harmonic analysis of jazz compositions, transcriptions, and the study of historic jazz solos as played by jazz masters. Recommended prereq., MUSC 3071. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5255 (2) Service Playing Techniques

Same as MUSC 4255.

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MUSC-5256 (3) Jazz Studies Administration and Pedagogy

Studies the organization and administration of collegiate jazz programs. Topics include curriculum, program philosophy, teaching techniques, funding, teacher training, and evaluation. Recommended prereq., MUSC 3253. Offered fall only. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5273 (2) Comprehensive String Pedagogy

Comparative study and application of the principles of string teaching. In-depth analysis of individual instrument pedagogy and application to advanced studio and class teaching. Historical survey of major violin, viola, cello, and double bass pedagogues. Includes apprenticeship teaching. Restricted to graduate students. Offered fall of odd-numbered years. Prerequisites: Restricted to Graduate Students only.

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MUSC-5285 (3) Organ Survey

Same as MUSC 4285.

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MUSC-5295 (3) Organ Survey

Same as MUSC 4295.

College of Music | Music | Keyboard

MUSC-5305 (2) Piano Pedagogy Group Techniques

Discusses materials and techniques for teaching beginning piano students of various ages in studio and class settings. Special attention given to adult classes. Includes an introduction to educational technology used in group instruction. Offered fall of odd-numbered years.

College of Music | Music | Keyboard

MUSC-5313 (3) Teaching Choral Music

Restricted to graduate students in music education. Same as MUSC 4313. Offered spring only.

College of Music | Music | Music Education

MUSC-5315 (2) Piano Pedagogy: Intermediate Literature

Surveys repertoire at the intermediate level and discusses teaching techniques. Explores issues related to intermediate and advanced piano performance, such as performance anxiety, physical and psychological well-being of the performer, and the development of technique. Introduces educational technology relevant to intermediate teaching. Offered spring of even-numbered years.

College of Music | Music | Keyboard

MUSC-5325 (2) Keyboard Literature 1

Examines areas of style, genre, and performance practice in selected keyboard music from 1600 to 1830. Emphasizes student presentation of specific topic areas. Offered fall semester of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5335 (2) Keyboard Literature 2

Examines areas of style, genre, and performance practice in selected areas of keyboard music from 1830 to the present. Emphasizes student presentation of specific topic areas. Offered spring semester of odd-numbered years.

College of Music | Music | Keyboard

MUSC-5336 (2) Brass Pedagogy

Analyzes pedagogical techniques and philosophies of teaching brass instruments, and examines materials. Offered every other spring semester.

College of Music | Music | Choral and Instrumental Music

MUSC-5345 (2) Research: Piano Literature and Pedagogy

Looks at individual or group research related to piano pedagogy or literature for piano. May be repeated upto 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5346 (3) Woodwind Pedagogy

Provides the knowledge and skills to teach woodwind instruments in both private studio and collegiate class settings. Considers pedagogical techniques addressing all levels of instruction.

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5356 (2) Jazz Studies Practicum

Studies strategies for developing and implementing academic programs in jazz studies. Includes demonstration teaching by class members. Recommended prereq., MUSC 5256. Offered Spring only. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5365 (2) Advanced Accompanying

An in-depth study of both vocal and instrumental collaborative repertoire in individually assigned projects, coached by collaborative faculty and others. May be repeated up to 12 total credit hours.

Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5375 (2) Opera Coaching for Pianists

Teaches skills for opera coaches and rehearsal pianists. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5405 (2) Basso-Continuo Accompaniment

Same as MUSC 4405. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Keyboard

MUSC-5425 (2) Collaborative Literature for Piano with Winds, Brass, and Percussion

Study of all forms of wind, brass and percussion repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered fall only.

College of Music | Music | Keyboard

MUSC-5435 (2) Collaborative Literature for Piano with Strings

Study of all forms string repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered spring only.

College of Music | Music | Keyboard

MUSC-5443 (3) Teaching Instrumental Music

For graduate music education majors. Same as MUSC 4443. Offered spring only.

College of Music | Music | Music Education

MUSC-5444 (2) Vocal Pedagogy

In depth study of the physiology, acoustics, and health aspects of the singing voice. Recommended for all graduate students in voice. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5454 (2) Repertory for Young Voices

Survey of the solo repertoire for young voices, the physiological aspects of mutational voices, techniques of vocalizing young voices, and class voice procedure. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5464 (2) French Song Literature

Provides an extensive analytical and historical discussion of French song literature styles, from the 12th century to the present.

College of Music | Music | Voice

MUSC-5484 (2) Graduate Seminar in Vocal Pedagogy

A thorough investigation of the challenges of studio voice pedagogy, including corrective techniques, psychological philosophies, and video analysis of student teaching. Examination and evaluation of comparative methodologies of vocal technique. Prereq., MUSC 5444 or instructor consent required.

College of Music | Music | Voice

PMUS-5497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. Class may fulfill voice literature requirements when appropriate classes are not offered. Also available: weekly individual coaching to prepare for voice recitals and other projects. Diction, musical styles, and interpretation (music and text) are the main focus of this course. May be repeated up to 12 credit hours. for graduate voice students and collaborative pianists. Prerequisites: Restricted to Graduate Students only.

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MUSC-5564 (2) German Song Literature

Provides an extensive analytical and historical discussion of German song literature styles, from the 18th century to the present.

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MUSC-5583 (2) The Inclusive Music Classroom

For graduate music education majors. Same as MUSC 4583. Prerequisites: Restricted to Graduate Students only.

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MUSC-5608 (1) Graduate Studies in the Alexander Technique

Study of the relationship of kinesthetic perception and postural reflexes to physical coordination in performance. Analysis and research regarding Alexander's principles. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5642 (3) Jazz History and Literature

Studies musical trends and cultural forces influencing jazz, with analysis of scales, improvisational styles, melodic and motivic variations, transcriptions, and orchestrations from significant periods in its history. Prereq., MUSC 3642 or instructor consent. Offered spring only.

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MUSC-5666 (2) Chamber Music Literature: Woodwinds

Provides a stylistic-historical survey in various genres from Baroque era to present. May be repeated up to 12 total credit hours. Offered every other spring.

College of Music | Music | Choral and Instrumental Music

MUSC-5708 (2) Introduction to Music Bibliography and Research

Explores basic informational sources about music and musicians; a study of bibliographic forms, research, and writing techniques employed in music research papers, theses, and dissertations. Required in all master's degree programs. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Interdepartmental Courses

MUSC-5712 (3) Renaissance Music

Provides a repertory and analysis of polyphonic music 1400-1600. Same as MUSC 4712.

College of Music | Music | Musicology

MUSC-5722 (1) Sight-Reading Medieval and Renaissance Music Literature

Provides an opportunity to read through, sing, play, study, and discuss ancient repertoires more intensively than is normally possible in either music history lecture classes, seminars, or chamber music ensembles. Evaluation is based on active participation, out-of-class research, and final in-class group-performance projects. Recommended for graduate students in historical musicology and choral conducting. May be repeated up to 6 total credit hours.

College of Music | Music | Musicology

MUSC-5742 (3) Performance Practice of Early Music

Examines instrumental and vocal performance practices through the 18th century. Topics may vary from year to year. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics.

College of Music | Music | Musicology

MUSC-5762 (3-4) History of Choral Literature

Provides a seminar in analysis of musical style and history of choral repertory . Those wishing review of literature and repertory may enroll for 4 credit hours.

College of Music | Music | Musicology

MUSC-5772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Restricted to graduate students. Same as MUSC 4772.

College of Music | Music | Musicology

MUSC-5802 (3) Studies in 20th Century Music

Same as MUSC 4802. Prereq., graduate standing.

College of Music | Music | Musicology

MUSC-5808 (1) Advanced Alexander Technique for Graduate Students

Continues investigation of the benefits of Alexander's principles regarding mind-body awareness begun in MUSC 5608. Increased emphasis on utilizing principles in specialized activity. Analysis and research regarding musical activities. May be repeated up to 3 total credit hours. Prereq., MUSC 5608 or instructor consent.

College of Music | Music | Interdepartmental Courses

MUSC-5812 (3) Symphonic Literature

Studies literature for orchestra, band, and other symphonic ensembles including pre-Classical, Classical, Romantic, and 20th century.

College of Music | Music | Musicology

MUSC-5822 (3) Ancient and Medieval Music

Surveys sources from the ancient Greeks to the early Christian era and music from the 8th to the 15th century.

College of Music | Music | Musicology

MUSC-5832 (3) Studies in American Music

Offers intensified work in folk, popular, and art music of the United States.

College of Music | Music | Musicology

MUSC-5842 (3) Aesthetics of Music

Surveys various philosophies of music in writings of philosophers, psychologists, sociologists, composers, critics, and historians. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature.

College of Music | Music | Musicology

MUSC-5872 (3) Late 18th and 19th Century Music

May be repeated up to 12 total credit hours. Same as MUSC 4872.

College of Music | Music | Musicology

MUSC-5882 (3) Studies in 18th and 19th Century Music

Meets as a seminar and examines selected topics in Classic and Romantic music, 1750-1900. Topics vary from year to year.

College of Music | Music | Musicology

MUSC-5892 (3) Latin American Music

Restricted to graduate students. Same as MUSC 4892.

College of Music | Music | Musicology

MUSC-5908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Entrepreneurship

MUSC-5968 (2) Entrepreneurial Ventures in the Arts

Previously Topics in Arts Entrepreneurship, this course prepares students to evaluate opportunities in their specific arts field by analyzing existing arts organizations and then applying entrepreneurial concepts to create new enterprises. Topics for research and discussion include current issues in the arts, introduction to entrepreneurship, preparing a business feasibility study, market information for new ventures, and funding sources. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Entrepreneurship

MUSC-5988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 4998.

College of Music | Music | Music Entrepreneurship

MUSC-6041 (3) Orchestration since 1940

Studies significant and distinctive orchestration techniques of the 20th century, concentrating on works written since 1940. Restricted to doctoral students.

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MUSC-6051 (3) Pedagogy of Music Theory

Studies methods and materials for teaching undergraduate music theory, aural skills, and analysis. Prereq., passed general written theory and aural skills prelim exam, or completed remediation.

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MUSC-6113 (2) Foundations of Music Education

Surveys historical and philosophical bases of contemporary music education. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

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MUSC-6133 (2) Comprehensive Musicianship through Performance

Explores curricular models for music education. Emphasizes comprehensive musicianship and standards-based frameworks for curriculum and development. Restricted to graduate students in music education. Offered spring of even-numbered years.

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MUSC-6193 (1-3) Selected Studies in Music Education

May be repeated up to 12 total credit hours. Prereq., consent of instructor and music education chair. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-6203 (2) Psychology of Music Learning

Provides an overview of psychological concepts relevant to music teaching and learning. Topics include learning theories, selected individual difference variables (motivation, anxiety, creativity, and personality), physiological structures related to hearing, psychoacoustics, and approaches to examining musical ability (e.g. brain research, music aptitude, and skill acquisition). Restricted to graduate students. Offered spring only.

College of Music | Music | Music Education

MUSC-6213 (2) Assessment of Music Learning

Provides an overview of traditional and contemporary approaches to music assessment. Topics include psychometrics, standardized tests, test construction, grade reports, and student portfolios. Restricted to graduate students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-6223 (2) Sociology of Music Education

Studies sociological perspectives related to music education. Topics include functions and uses of music; teacher and student role/identity development; social aspects of music performance, and cultural perspectives on music learning. Recommended prereq., MUSC 6113. Restricted to graduate students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-6233 (2) Pedagogy of Music Teaching and Learning

Explores four topics (reflective/critical thinking, teacher effectiveness, cultural/program contexts, teachers' lives/career development) relevant to long-term teacher development. Includes individualized feedback on teaching. Open to graduate students in music education and performance-pedagogy. Offered spring of odd-numbered years. Restricted to MME+ students in their second or third year of the program. Recommended prereq., MUSC 6113 and/or significant teaching experience.

College of Music | Music | Music Education

MUSC-6325 (2) Seminar in Piano Literature

Provides an intensive study of a selected area of repertoire or history. May be repeated up to 6 total credit hours. Restricted to doctoral students or instructor consent required. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-6801 (3) Advanced Topics in Music Theory

Intensive study of a specialized topic in theory and analysis. Students will be guided in critical reading and analysis, class presentations, and independent research. Prereqs., graduate preliminary exams passed, and 6 credit hours of graduate-level theory. Restricted to MUSD and MUAD students. Prerequisites: Restricted to Music (MUSD or MUAD) majors only.

College of Music | Music | Theory and Composition

MUSC-6822 (3) Advanced Studies in Musicology

Intensive study of a specialized topic in musicology. Students will be guided in critical reading, historical or ethnographic issues, analysis, oral presentations, and independent research. May be repeated up to 6 total credit hours. prereq., MUSC 5708. Restricted to MUAD or MUSD majors. Prerequisites: Restricted to Music (MUAD or MUSD) graduate students only.

College of Music | Music | Musicology

MUSC-7046 (3) Seminar in Jazz Literature

Provides advanced study in jazz literature and styles. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires class presentations and a major paper or project. May be repeated up to 6 total credit hours. Recommended prereqs., MUSC 5091 and 5642. Restricted to doctoral students. Offered every other year.

College of Music | Music | Choral and Instrumental Music

MUSC-7103 (3) Historical Research in Music Education

Topics include oral history, archival collections, data verification, and critiquing/publishing research. Students conduct one original research study. May be repeated up to 12 total credit hours. Restricted to doctoral students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-7113 (3) Quantitative Research in Music Education

Topics include sampling, questionnaire development, research design, intermediate and advanced statistics, presenting/publishing research, and research ethics. Students conduct an original research study. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-7138 (3) Contemporary Issues in College Teaching

Examines music teaching within colleges and universities, including the evolution of university music programs, undergraduate and graduate music curricula, music professors and their work, and sociopolitical issues. Offered spring of odd-numbered years.

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MUSC-7143 (3) Qualitative Research in Music Education

Topics include qualitative research traditions, site and participant selection, data collection and analysis methods, quality standards, and research ethics. Students conduct an original research study. Restricted to doctoral students in music education. Offered fall of odd-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

College of Music | Music | Music Education

MUSC-7203 (3) Doctoral Seminar in Music Education

Provides an advanced study of topics central to the music education profession. Requires class presentations and a major paper or project. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

College of Music | Music | Music Education

MUSC-7801 (3) Doctoral Seminar in Music Theory

Provides advanced study in theory. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires a major paper or project. Restricted to Music (MUSD) graduate students only. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Prerequisites: Restricted to Music (MUSD) graduate students only.

College of Music | Music | Theory and Composition

MUSC-7822 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. Restricted to MUSD majors. See also MUSC 7832. Offered fall only. Prerequisites: Restricted to Music (MUSD) graduate students only.

College of Music | Music | Musicology

MUSC-7832 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. See also MUSC 7822. Offered spring only.

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MUSC-3051 (2) Beginning Composition

For noncomposition majors. Introduction to the craft of musical composition with analysis and writing in various styles. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3061 (2) Jazz Improvisation I

Develops skills in jazz improvisation through practical application of chord/scale relationship, transcription, repertoire, and analysis. Open to all instruments. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3071 (2) Jazz Improvisation II

Continues and expands upon the material presented in MUSC 3061. Reinforcement of ability to create an improvised melody in a range of harmonic contexts including blues, bebop, modal jazz, free jazz, and other styles. Prereq., MUSC 3061 or instructor consent. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3081 (3) Jazz Theory and Aural Foundations

Presents the grammar and syntax of jazz. Acquaints the student with the language of jazz improvisation and various jazz styles. The musician's most valuable tool---the ear---is developed through an in-depth analytical study of jazz masters through harmonic dictation/identification. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4001 (2) New Musical Styles and Practices

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered every other year. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4011 (2) 16th Century Counterpoint

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., Musc 2111 and 2131. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including invention, suite, and fugue. Provides a foundation in species counterpoint; stresses analysis and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4031 (2) Jazz Arranging 1

Study of notation, score layout, transpositions, basic harmonic and melodic analysis, basic chord voicings, and composition for a small and large jazz ensemble. Use of notation software such as Finale or Sibelius. Prereqs., MUSC 2111 and 2131. Recommended prereq., MUSC 3081. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4041 (2) Orchestration

Studies advanced orchestration techniques through score analysis and student projects. Prereq., MUSC 2071 or instructor consent. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4061 (2) Tonal Analysis

Surveys tonal analytical techniques and forms of tonal music, including binary forms, sonata forms, ternary forms, rondo (and others) through study of selected works from the 18th and 19th centuries. Prereqs., MUSC 2111 and 2131. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4071 (2) Post-Tonal Theory and Analysis

Focus on theory and analysis of post-tonal literature pre-1945. Prereqs., MUSC 2111 and 2131. Offered every other fall. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4081 (3) Introduction to Music Technology

Topics include basic synthesis, musical instrument digital interface (MIDI) sequencing, and music notation by computer. Offered fall and spring. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4091 (2) Jazz Arranging 2

Continuation and expansion of studies in MUSC 4031. Survey and analysis of major composers and arrangers of the idiom. Course focuses on creating several arranging projects for a large jazz ensemble. Prereq., MUSC 4031. Recommended prereq., MUSC 3081. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4101 (1-3) Theory and Aural Skills Review

Reviews tonal harmony, voice leading, and essential aural skills. Includes diatonic triads and seventh chords, modulation, chromaticism, and structural analysis of representative compositions. Prepares graduate students for more advanced work in music theory. Students may register for aural skills only (1 credit), theory only (2 credits), or both theory and aural skills (3 credits). May not be taken pass/fail. For graduate students only. Offered summer and fall. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-4111 (2) Composing at the Computer

Discover strategies and techniques for generating and manipulating sound at the computer. Student projects will include compositions, soundscapes, ambient environments, and soundtracks for multimedia. Available to students without prior experience with computer music or composition. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4121 (3) Topics in Music Technology

Exploration of issues, techniques, and tools of music technology. Topics vary from term to term and may include: interactive systems for performance; teaching and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures on work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Recommended prereqs., MUSC 2772 or 2782 or 4112. Same as MUSC 5168. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4191 (2) Advanced Recording

Study of advanced recording techniques and concepts beyond those covered in MUSC 2091 involving multiple microphones for ensemble concerts and recording sessions within and outside of the College of Music. Prereq., MUSC 2091. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-5011 (2) 16th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including FREE, TWO- and THREE-part imitative counterpoint in the style of Palestrina. Provides a foundation in species counterpoint, working towards free counterpoint; stresses analysis and composing in 16th-century styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including INVENTION, SUITE, and FUGUE. Provides a foundation in species counterpoint; stresses analysis and composing in the styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-5041 (2) Advanced Orchestration

Provides an advanced study of orchestration techniques through score analysis and student projects. Offered fall only.

College of Music | Music | Theory and Composition

MUSC-5061 (3) Advanced Tonal Analysis

Surveys tonal analytical techniques. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall only. Prerequisites: Restricted to Graduate Students only.

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MUSC-5071 (3) Post-tonal Theory and Analysis I

Focuses on theory and analysis of post-tonal literature pre-1945. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall and every other spring. Prerequisites: Restricted to Graduate Students only.

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MUSC-5081 (3) Applications in Music Technology

Presents advanced strategies for applying computer technology in several musical disciplines. Emphasizes the use of technology in composition, music theory, and music education. Offered fall only. Prerequisites: Restricted to Graduate Students only.

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MUSC-5091 (3) Contemporary Jazz Theory

Studies contemporary approaches to jazz improvisation and composition. Analysis of innovative composition and improvisation and strategies for integration of the material into a personal vocabulary are explored. Prereq., MUSC 3081. Offered spring only.

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MUSC-5121 (3) Advanced Topics in Music Technology

Conducts advanced research in techniques and tools of music technology. Topics vary from term to term and may include: user interfaces for computer music; advanced sound design; digital modeling of acoustic sounds; computer-aided analysis of sound; modeling music intelligence in real time. Lectures and work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 5081 or instructor consent required.

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MUSC-5151 (3) Topics in Music Analysis

Analytical study of a specific topic to be determined by the instructor (e.g., German Lieder, Bartok quartets, tonal rhythm, Schenker, etc). Study published analyses representing a variety of methodologies, and produce original analyses. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Recommended prereqs., MUSC 5061, 5071, as appropriate to topic or instructor consent. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Same as MUSC 4168. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-6041 (3) Orchestration since 1940

Studies significant and distinctive orchestration techniques of the 20th century, concentrating on works written since 1940. Restricted to doctoral students.

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MUSC-6051 (3) Pedagogy of Music Theory

Studies methods and materials for teaching undergraduate music theory, aural skills, and analysis. Prereq., passed general written theory and aural skills prelim exam, or completed remediation.

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MUSC-6801 (3) Advanced Topics in Music Theory

Intensive study of a specialized topic in theory and analysis. Students will be guided in critical reading and analysis, class presentations, and independent research. Prereq., graduate preliminary exams passed, and 6 credit hours of graduate-level theory. Restricted to MUSD and MUAD students. Prerequisites: Restricted to Music (MUSD or MUAD) majors only.

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MUSC-7801 (3) Doctoral Seminar in Music Theory

Provides advanced study in theory. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires a major paper or project. Restricted to Music (MUSD) graduate students only. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Prerequisites: Restricted to Music (MUSD) graduate students only.

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PMUS-4105 (1) Supervised Accompanying

Assigned projects, both vocal and instrumental, are coached by collaborative piano faculty and others. May involve recital, jury, or master class performances. Prereq., MUSC 1325 and MUSC 2365 or instructor consent. Prerequisites: Requires pre-requisite course of MUSC 1325 and MUSC 2365). Restricted to Music majors or graduate students only.

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PMUS-3167 (3) Opera Theatre Stagecraft

Introduction to the processes, materials, and equipment used in theatrical production. Lecture and lab requirements. Lab experiences include introductory work in the opera scenery, property, costume, and electrical shops. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3444 (1) French Diction

Designed for the understanding of lyric French diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of French classical vocal literature. Prereq., MUSC 1554. Recommended prereq., MUSC 3464. Required of Junior BM voice majors. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3464 (1) German Diction

Designed for the understanding of lyric German diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of German classical vocal literature. Prereq., MUSC 1554. Restricted to College of Music majors only. Required of sophomore BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-4137 (1) Opera Theatre 1

Addresses issues related to young artist development. Areas of concentration include (but are not limited to) acting technique, resume preparation, audition technique, scene analysis, and role preparation. The acting technique is addressed in this course through textbook reading and exercise. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Music majors or graduate students only.

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PMUS-4147 (1) Opera Theatre 2

Continuation of PMUS 4137. Further scene analysis and movement exercises are addressed in this class. May be repeated up to 12 total credit hours. Prereq., PMUS 4137. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-4157 (1-3) Opera Practicum

Prerequisites: Restricted to Music majors or graduate students only.

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PMUS-4167 (1-3) Opera Theatre Lab

Advanced work in the scenery, property, costume, and electrical shops in opera performance. Additional experiences may include positions with opera run crews, the box office, or other supporting areas. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-4497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. May be repeated up to 12 credit hours. Prerequisites: Restricted to Music majors or graduate students only.

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PMUS-5137 (2) Opera Theatre 1

Addresses issues related to young artist development at the graduate level. Areas of concentration will include (but are not limited to) acting technique for singers, resume preparation and scene and character analysis. Students will participate in acting and improvisation exercises. Substantial classical voice study is required and this course is recommended for voice majors only. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

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PMUS-5147 (2) Opera Theatre 2

Continuation of PMUS 5137. May be repeated up to 12 total credit hours. Prereq., PMUS 5137.

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PMUS-5184 (1) Graduate Voice Class

Teaches solo and choral singing and vocal modeling. Designed for choral and music education graduate students. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

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MUSC-5444 (2) Vocal Pedagogy

In depth study of the physiology, acoustics, and health aspects of the singing voice. Recommended for all graduate students in voice. Prerequisites: Restricted to Graduate Students only.

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MUSC-5454 (2) Repertory for Young Voices

Survey of the solo repertoire for young voices, the physiological aspects of mutational voices, techniques of vocalizing young voices, and class voice procedure. Prerequisites: Restricted to Graduate Students only.

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MUSC-5464 (2) French Song Literature

Provides an extensive analytical and historical discussion of French song literature styles, from the 12th century to the present.

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MUSC-5484 (2) Graduate Seminar in Vocal Pedagogy

A thorough investigation of the challenges of studio voice pedagogy, including corrective techniques, psychological philosophies, and video analysis of student teaching. Examination and evaluation of comparative methodologies of vocal technique. Prereq., MUSC 5444 or instructor consent required.

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PMUS-5497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. Class may fulfill voice literature requirements when appropriate classes are not offered. Also available: weekly individual coaching to prepare for voice recitals and other projects. Diction, musical styles, and interpretation (music and text) are the main focus of this course. May be repeated up to 12 credit hours. for graduate voice students and collaborative pianists. Prerequisites: Restricted to Graduate Students only.

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MUSC-5564 (2) German Song Literature

Provides an extensive analytical and historical discussion of German song literature styles, from the 18th century to the present.

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EMUS-1327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1337 (1) Chamber Orchestra

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EMUS-1347 (1) Bell Ensemble

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EMUS-1357 (1) Harp Ensemble

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EMUS-1367 (1) Early Music Ensembles

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

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EMUS-1377 (1) Chamber Music-Brass

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EMUS-1387 (1) Chamber Music-Strings

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EMUS-1397 (1) Chamber Music Piano Duo

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EMUS-1407 (1) Chamber Music-Woodwinds

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EMUS-1417 (1) Percussion Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

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EMUS-1427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1437 (1) Jazz Combo

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1447 (1) Guitar Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

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EMUS-1467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, Latin American, African American, and Asian American, as well as music from the mother cultures of these groups. Same as EMUS 3467 and 5467. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 3477 and EMUS 5477.

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EMUS-1507 (1) Chamber Music

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1517 (1) Campus Orchestra

Offers University string, wind and percussion performers not majoring in music an opportunity to play in a conducted orchestra. Rehearsals are one one night per week and has limited performance demands. Auditions are not required for strings. Instruments are available if needed. May be repeated up to 12 total credit hours. Same as EMUS 3517. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Music](#) | [Music Ensembles](#)

EMUS-3217 (1) University Singers

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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College of Music | Music Ensembles

EMUS-3227 (1) University Choir

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3237 (1) Women's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3247 (1) Men's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3257 (1) Collegiate Chorale

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3267 (1) Choirs/Festival

College of Music | Music Ensembles

EMUS-3287 (1) Marching Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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College of Music | Music Ensembles

EMUS-3307 (1) Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3317 (1) Campus Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-3347 (1) Bell Ensemble

College of Music | Music Ensembles

EMUS-3357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-3367 (1) Early Music Ensembles

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

EMUS-3377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-3387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-3397 (1) Chamber Music Piano Duo

College of Music | Music Ensembles

EMUS-3407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-3417 (1) Percussion Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

EMUS-3427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3437 (1) Jazz Combo

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3447 (1) Guitar Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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EMUS-3457 (1) Electronic Music Ensemble

Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3467 (1) World Music Ensemble

Same as EMUS 1467 and EMUS 5467. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 5477.

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EMUS-3507 (1) Chamber Music

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3517 (1) Campus Orchestra

May be repeated up to 12 total credit hours. Same as EMUS 1517. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-5217 (1) University Singers

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5227 (1) University Choir

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5307 (1) Band

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-5357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-5367 (1) Early Music Ensembles

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-5387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-5407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-5417 (1) Percussion Ensemble

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5427 (1) Jazz Ensemble

Students perform in a principal format for jazz expression. The large ensemble setting affords the opportunity to expand knowledge of jazz styles and repertoire as well as refine reading skills and improve spontaneous interaction with other musicians. Prereq., previous experience in large jazz ensembles. Recommended EMUS 3427 or equiv. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5437 (1) Jazz Combo

Allows students the opportunity to perform in the principal format for jazz expression. The small group setting affords performers the opportunity to refine improvisation skills, improve spontaneous interaction with musicians and expand knowledge of jazz styles and repertoire. Prereq., previous performance experience in small jazz combos. Recommended EMUS 3437, or equiv. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5447 (1) Guitar Ensemble

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5457 (1) Electronic Music Ensemble

Explores performance, composition, and the history of electronic music, including 20th century art music on through to electronic music in contemporary popular culture. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, African American, and Asian American, as well as music from the mother cultures of these groups. Prereq., graduate standing or instructor consent. Same as EMUS 1467 and 3467. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 3477.

College of Music | Music Ensembles

EMUS-5507 (1) Chamber Music

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

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EMUS-1477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 3477 and EMUS 5477.

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EMUS-1507 (1) Chamber Music

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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EMUS-1517 (1) Campus Orchestra

Offers University string, wind and percussion performers not majoring in music an opportunity to play in a conducted orchestra. Rehearsals are one one night per week and has limited performance demands. Auditions are not required for strings. Instruments are available if needed. May be repeated up to 12 total credit hours. Same as EMUS 3517. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

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MUSC-2325 (2) Applied Harmony for the Keyboard

Provides an intensive study and application of the harmonic structure of music in a variety of keyboard skills: figured bass realization, chord progressions, harmonization, improvisation, transposition, on-sight harmonic analysis, and playing by ear. Prereqs., MUSC 1111, 1131, and 1325. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-2365 (2) Introduction to Accompanying

An overall study in the art of working with instrumentalists and singers including repertoire and orchestral reductions. Requires performance with a student instrumentalist or singer to be critiqued and coached by class and instructor. Prereq., piano major or instructor consent. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2366 (2) Guitar Accompanying

Survey of accompanying repertoire for guitar with solo instruments (flute, violin, voice, etc.), including introductory work in basso continuo, playing/improvising from chord charts, and arranging accompaniments from musical scores. Prereq., MUSC 1326. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2608 (1) Alexander Technique

Investigates the discoveries and writings of F. M. Alexander regarding kinesthetic perception and coordination. Applies these contexts to specific musical activities. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2988 (1) Introduction to Music Research

Introduces music research and writing skills to provide tools necessary for successful composition of formal research papers. Applies interests and curricular goals to specific topics of student choice. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4078 (1) Piano Technician for Pianists

Familiarizes pianists with the development of the modern grand piano, its construction, and the proper terminology of parts and specifications. Trains pianists in minor repairs and adjustments of the grand piano action, and in minor tuning tasks. Recommended restriction, piano majors. Restricted to College of Music majors only. Same as MUSC 5078. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4288 (2-3) Macintosh-based Web Server Fundamentals for Musicians and Educators

Designed for music students. Teaches concepts and skills necessary to develop, host, and maintain Macintosh-based web servers and to create and serve multimedia files including video, MP3, MIDI, and PDF.

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MUSC-4608 (1) Advanced Studies in the Alexander Technique

Continue of MUSC 2608 with greater concentration on utilizing Alexander principles in specialized activity. Prereq., MUSC 2608 or instructor consent. Prerequisites: Requires prerequisite course of MUSC 2608. Restricted to College of Music undergraduate students only.

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MUSC-5078 (1) Piano Technician for Pianists

Same as MUSC 4078. Prerequisites: Restricted to Graduate Students only.

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MUSC-5608 (1) Graduate Studies in the Alexander Technique

Study of the relationship of kinesthetic perception and postural reflexes to physical coordination in performance. Analysis and research regarding Alexander's principles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-5708 (2) Introduction to Music Bibliography and Research

Explores basic informational sources about music and musicians; a study of bibliographic forms, research, and writing techniques employed in music research papers, theses, and dissertations. Required in all master's degree programs. Prerequisites: Restricted to Graduate Students only.

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MUSC-5808 (1) Advanced Alexander Technique for Graduate Students

Continues investigation of the benefits of Alexander's principles regarding mind-body awareness begun in MUSC 5608. Increased emphasis on utilizing principles in specialized activity. Analysis and research regarding musical activities. May be repeated up to 3 total credit hours. Prereq., MUSC 5608 or instructor consent.

College of Music | Music | Interdepartmental Courses

MUSC-7138 (3) Contemporary Issues in College Teaching

Examines music teaching within colleges and universities, including the evolution of university music programs, undergraduate and graduate music curricula, music professors and their work, and sociopolitical issues. Offered spring of odd-numbered years.

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MUSC-2608 (1) Alexander Technique

Investigates the discoveries and writings of F. M. Alexander regarding kinesthetic perception and coordination. Applies these contexts to specific musical activities. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2772 (3) World Musics

Study of music outside western art tradition, using current ethnomusicological materials and methodologies. Spring semester focuses on musical cultures of Africa, the Americas, and Europe; fall semester focuses on musical cultures of Asia and Oceania. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2782 (3) World Musics Survey--Africa, Europe, and the Americas

Use current ethnomusicological materials and methods in the study of music outside the Western art tradition. Usually taught in the spring, MUSC 2782 focuses on music cultures of Africa, Europe, and the Americas. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2918 (2) Building Your Music Career

Students acquire the practical skills they need to build their career as professional musicians, as well as explore the many options for putting their music education to work in the marketplace.

Students will also explore the state of live music-making today and explore ways to maintain relevance for themselves and their art in an ever-changing world. Formerly MUSC 4918. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4958 (2) Community Performances

Designed for the aspiring professional performer. Through classroom theory and off-campus application, acquire skills in programming for and communicating with diverse audiences, marketing & PR, and new paradigms of concert presentation. Will result in an actual musical presentation in the community. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 5988.

College of Music | Music | Music Entrepreneurship

MUSC-5908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-5968 (2) Entrepreneurial Ventures in the Arts

Previously Topics in Arts Entrepreneurship, this course prepares students to evaluate opportunities in their specific arts field by analyzing existing arts organizations and then applying entrepreneurial concepts to create new enterprises. Topics for research and discussion include current issues in the arts, introduction to entrepreneurship, preparing a business feasibility study, market information for new ventures, and funding sources. Prerequisites: Restricted to Graduate Students only.

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MUSC-5988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 4998.

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MUSC-2997 (0) Sophomore Proficiency

To be completed by the second semester of the sophomore year. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3997 (1) Junior Recital

Prereq., MUSC 2997. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-4957 (1-4) Senior Thesis

Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4997 (1) Senior Recital

Prereq., MUSC 3997. Prerequisites: Requires pre-requisite class of MUSC 3997. Restricted to College of Music undergraduate students only.

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MUSC-2918 (2) Building Your Music Career

Students acquire the practical skills they need to build their career as professional musicians, as well as explore the many options for putting their music education to work in the marketplace. Students will also explore the state of live music-making today and explore ways to maintain relevance for themselves and their art in an ever-changing world. Formerly MUSC 4918. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2988 (1) Introduction to Music Research

Introduces music research and writing skills to provide tools necessary for successful composition of formal research papers. Applies interests and curricular goals to specific topics of student choice. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-2997 (0) Sophomore Proficiency

To be completed by the second semester of the sophomore year. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3013 (1) String Class

For music education majors with choral/general emphasis. Develops basic performance skills on two or more string instruments. Addresses teaching strategies and other specialized topics related to string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3023 (1) Woodwind Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3033 (1) Brass Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3133 (2) Teaching General Music I

Provides an overview of general music teaching with emphasis on developmentally appropriate strategies and materials. Required for all music education majors as partial fulfillment of course work leading to K-12 music licensure. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3153 (2) Teaching Woodwind Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3163 (2) Teaching String Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more string instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3176 (2) Conducting 1

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-3186 (2) Conducting II

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Prereq., MUSC 3176. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3193 (2) Vocal Pedagogy and Literature for Young Voices

Provides an overview of vocal anatomy/function, care of the voice, vocal repertoire, teaching strategies, and other specialized topics related to singing instruction in both private studio and public school choral settings. Fall section for instrumentalists; spring section for vocalists. Prerequisites: Restricted to Music majors or graduate students only.

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EMUS-3217 (1) University Singers

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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MUSC-3223 (2) Teaching Brass Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3227 (1) University Choir

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3237 (1) Women's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3247 (1) Men's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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MUSC-3253 (2) Jazz Techniques for the Music Educator

Prepares the music educator for successful experiences teaching jazz at the secondary level. Students gain insights into performance and rehearsal techniques for the instrumental jazz ensemble. Explores approaches for teaching jazz theory, improvisation, and selecting literature for young students. Own instrument required for certain classes. Recommended prereqs., MUSC 1111 and 2103. Restricted to College of Music majors only. Offered spring only.

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EMUS-3257 (1) Collegiate Chorale

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3267 (1) Choirs/Festival

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PMUS-3271 (2) Basic Improvisation

The exploration of basic music improvisation; performance in various musical styles. Prereq. MUSC 2111 or instructor consent. Offered spring of even-numbered years.

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MUSC-3273 (2) String Pedagogy and Literature

Examines instructional methods/materials and pedagogical approaches appropriate for beginning to advanced string students in private studio, small ensemble, or large ensemble contexts. Topics may include group teaching strategies, as well as contemporary approaches including Rolland and Suzuki. Recommended prereqs., MUSC 2103 and 3163. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3287 (1) Marching Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3307 (1) Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3317 (1) Campus Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3337 (1) Chamber Orchestra

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MUSC-3345 (2) Piano Pedagogy 1

Discusses teaching philosophies, objectives, and procedures. Examines and evaluates methods and materials. Studies practical aspects with which the private teacher is concerned. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3347 (1) Bell Ensemble

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MUSC-3355 (2) Piano Pedagogy 2

Materials and techniques for teaching piano with a focus on the intermediate level student. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered only in spring of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3357 (1) Harp Ensemble

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MUSC-3363 (2) Marching Band Techniques

Helps develop the skills needed to administer and teach all aspects of a contemporary high school marching band. Includes drill conception and design, instruction, organization, and administration. Prereqs., MUSC 2103 and EMUS 1287. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

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EMUS-3367 (1) Early Music Ensembles

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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EMUS-3377 (1) Chamber Music-Brass

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EMUS-3387 (1) Chamber Music-Strings

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EMUS-3397 (1) Chamber Music Piano Duo

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EMUS-3407 (1) Chamber Music-Woodwinds

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EMUS-3417 (1) Percussion Ensemble

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EMUS-3427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3437 (1) Jazz Combo

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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MUSC-3445 (1) Practicum in Piano Teaching: Elementary Level

Provides practical experience teaching piano at the elementary and early intermediate levels under faculty supervision. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 3345, 3355. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3447 (1) Guitar Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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EMUS-3457 (1) Electronic Music Ensemble

Prerequisites: Restricted to College of Music undergraduate students only.

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EMUS-3467 (1) World Music Ensemble

Same as EMUS 1467 and EMUS 5467. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 5477.

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EMUS-3507 (1) Chamber Music

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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EMUS-3517 (1) Campus Orchestra

May be repeated up to 12 total credit hours. Same as EMUS 1517. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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MUSC-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events and people most important to its evolution. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course. Prerequisites: Restricted to sophomore non-College of Music majors only.

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MUSC-3802 (3) History of Music 1

Surveys Western art music with stylistic analysis of representative works from all major periods through the Baroque. See also MUSC 3812. Prereq., MUSC 2111. Prerequisites: Requires pre-requisite course of MUSC 2111. Restricted to Music majors or graduate students only.

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MUSC-3812 (3) History of Music 2

Surveys Western art music with stylistic analysis of representative works from all major periods after the Baroque. See also MUSC 3802. Prereq., MUSC 2111. Restricted to College of Music majors only. Prerequisites: Requires prerequisite course of MUSC 2111. Restricted to College of Music undergraduate students only.

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MUSC-3997 (1) Junior Recital

Prereq., MUSC 2997. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-4012 (3) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-5151 (3) Topics in Music Analysis

Analytical study of a specific topic to be determined by the instructor (e.g., German Lieder, Bartok quartets, tonal rhythm, Schenker, etc). Study published analyses representing a variety of methodologies, and produce original analyses. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Recommended prereqs., MUSC 5061, 5071, as appropriate to topic or instructor consent. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5156 (2) Symposium in Choral Musi.

Provides an advanced study of choral repertoire by style period. Required of all choral graduate students for a minimum of two semesters. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Same as MUSC 4168. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5183 (2) Research in Music Teaching

Introduces basic descriptive, experimental, and qualitative research methods, including sampling, design, data collection, and analysis. Students review published music research and conduct one

original research study. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

PMUS-5184 (1) Graduate Voice Class

Teaches solo and choral singing and vocal modeling. Designed for choral and music education graduate students. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

MUSC-5215 (1-2) Studies in Piano Teaching

Studies the practical aspects and techniques for teaching piano at the intermediate and advanced levels in pre-college and college settings, as well as teaching group piano at the college level.

May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 5305 and 5315. Restricted to graduate piano majors. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

EMUS-5217 (1) University Singers

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5227 (1) University Choir

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

MUSC-5246 (3) Jazz Improvisation and Analysis

A study of improvisation through melodic and harmonic analysis of jazz compositions, transcriptions, and the study of historic jazz solos as played by jazz masters. Recommended prereq., MUSC 3071. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5255 (2) Service Playing Techniques

Same as MUSC 4255.

College of Music | Music | Keyboard

MUSC-5256 (3) Jazz Studies Administration and Pedagogy

Studies the organization and administration of collegiate jazz programs. Topics include curriculum, program philosophy, teaching techniques, funding, teacher training, and evaluation. Recommended prereq., MUSC 3253. Offered fall only. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5273 (2) Comprehensive String Pedagogy

Comparative study and application of the principles of string teaching. In-depth analysis of individual instrument pedagogy and application to advanced studio and class teaching. Historical survey of major violin, viola, cello, and double bass pedagogues. Includes apprenticeship teaching. Restricted to graduate students. Offered fall of odd-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-5285 (3) Organ Survey

Same as MUSC 4285.

College of Music | Music | Keyboard

MUSC-5295 (3) Organ Survey

Same as MUSC 4295.

College of Music | Music | Keyboard

EMUS-5297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

MUSC-5305 (2) Piano Pedagogy Group Techniques

Discusses materials and techniques for teaching beginning piano students of various ages in studio and class settings. Special attention given to adult classes. Includes an introduction to educational technology used in group instruction. Offered fall of odd-numbered years.

College of Music | Music | Keyboard

EMUS-5307 (1) Band

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

MUSC-5313 (3) Teaching Choral Music

Restricted to graduate students in music education. Same as MUSC 4313. Offered spring only.

College of Music | Music | Music Education

MUSC-5315 (2) Piano Pedagogy: Intermediate Literature

Surveys repertoire at the intermediate level and discusses teaching techniques. Explores issues related to intermediate and advanced piano performance, such as performance anxiety, physical and psychological well-being of the performer, and the development of technique. Introduces educational technology relevant to intermediate teaching. Offered spring of even-numbered years.

College of Music | Music | Keyboard

MUSC-5325 (2) Keyboard Literature 1

Examines areas of style, genre, and performance practice in selected keyboard music from 1600 to 1830. Emphasizes student presentation of specific topic areas. Offered fall semester of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

EMUS-5327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

MUSC-5335 (2) Keyboard Literature 2

Examines areas of style, genre, and performance practice in selected areas of keyboard music from 1830 to the present. Emphasizes student presentation of specific topic areas. Offered spring semester of odd-numbered years.

College of Music | Music | Keyboard

MUSC-5336 (2) Brass Pedagogy

Analyzes pedagogical techniques and philosophies of teaching brass instruments, and examines materials. Offered every other spring semester.

College of Music | Music | Choral and Instrumental Music

EMUS-5337 (1) Chamber Orchestra

College of Music | Music Ensembles

MUSC-5345 (2) Research: Piano Literature and Pedagogy

Looks at individual or group research related to piano pedagogy or literature for piano. May be repeated upto 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard



MUSC-4078 (1) Piano Technician for Pianists

Familiarizes pianists with the development of the modern grand piano, its construction, and the proper terminology of parts and specifications. Trains pianists in minor repairs and adjustments of the grand piano action, and in minor tuning tasks. Recommended restriction, piano majors. Restricted to College of Music majors only. Same as MUSC 5078. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4101 (1-3) Theory and Aural Skills Review

Reviews tonal harmony, voice leading, and essential aural skills. Includes diatonic triads and seventh chords, modulation, chromaticism, and structural analysis of representative compositions. Prepares graduate students for more advanced work in music theory. Students may register for aural skills only (1 credit), theory only (2 credits), or both theory and aural skills (3 credits). May not be taken pass/fail. For graduate students only. Offered summer and fall. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-4103 (1) Introduction to Student Teaching

Represents the first half of the professional internship year. Familiarizes students with the schools and music programs in which they plan to student teach. Music placements may consist of elementary and high school, elementary and middle school, or middle school and high school. Prereqs., MUSC 4113, 4313, or 4443; and EDUC 3023. Prerequisites: Requires prerequisite courses of MUSC 4113, 4313, or 4443 and EDUC 3023 or 4023. Restricted to College of Music undergraduate students only.

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MUSC-4106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4111 (2) Composing at the Computer

Discover strategies and techniques for generating and manipulating sound at the computer. Student projects will include compositions, soundscapes, ambient environments, and soundtracks for multimedia. Available to students without prior experience with computer music or composition. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4112 (3) Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Prereq., MUSC 2772. Restricted to junior or senior College of Music majors only. Prerequisites: Requires pre-requisite class of MUSC 2772. Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4113 (3) Teaching General Music 2

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Prereqs., MUSC 2103 and 3133. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4121 (3) Topics in Music Technology

Exploration of issues, techniques, and tools of music technology. Topics vary from term to term and may include: interactive systems for performance; teaching and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures on work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4133 (3) Student Teaching Practicum

Offers practice teaching under the guidance of a master music teacher. Secondary level. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4142 (3) American Indian Music

Examines Native North American musical cultures, with an emphasis on music as an integral part of religious expression and community life. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4143 (2) Developing Children's Choirs

Examines the musical skills, teaching techniques, and administrative procedures necessary for developing a children's choir. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5143. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4152 (3) East Asian Music

Surveys the development of music in Japan, China and Korea through the in-depth study of particular styles of traditional music. The course emphasizes the study of music and culture, particularly music's relationship to religion, politics, language, literature, dance and theatre. Recommended prereq., MUSC 2772. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4153 (1) Percussion Class and Pedagogy

Required of all music education majors. Presents knowledge and skills necessary for music educators to teach young students, including a general understanding of the techniques used in playing and teaching percussion instruments in the school music program. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4163 (2) Choral Literature for School Ensembles

Examination of literature, materials, and methods appropriate for teaching choral music in secondary schools. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Recommended prereqs., MUSC 2772 or 2782 or 4112. Same as MUSC 5168. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4191 (2) Advanced Recording

Study of advanced recording techniques and concepts beyond those covered in MUSC 2091 involving multiple microphones for ensemble concerts and recording sessions within and outside of the College of Music. Prereq., MUSC 2091. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-5346 (3) Woodwind Pedagogy

Provides the knowledge and skills to teach woodwind instruments in both private studio and collegiate class settings. Considers pedagogical techniques addressing all levels of instruction.

Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5356 (2) Jazz Studies Practicum

Studies strategies for developing and implementing academic programs in jazz studies. Includes demonstration teaching by class members. Recommended prereq., MUSC 5256. Offered Spring only. Prerequisites: Restricted to College of Music graduate students only.

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EMUS-5357 (1) Harp Ensemble

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MUSC-5365 (2) Advanced Accompanying

An in-depth study of both vocal and instrumental collaborative repertoire in individually assigned projects, coached by collaborative faculty and others. May be repeated up to 12 total credit hours.

Prerequisites: Restricted to Graduate Students only.

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EMUS-5367 (1) Early Music Ensembles

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

MUSC-5375 (2) Opera Coaching for Pianists

Teaches skills for opera coaches and rehearsal pianists. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

EMUS-5377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-5387 (1) Chamber Music-Strings

College of Music | Music Ensembles

MUSC-5405 (2) Basso-Continuo Accompaniment

Same as MUSC 4405. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Keyboard

EMUS-5407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-5417 (1) Percussion Ensemble

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

MUSC-5425 (2) Collaborative Literature for Piano with Winds, Brass, and Percussion

Study of all forms of wind, brass and percussion repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered fall only.

College of Music | Music | Keyboard

EMUS-5427 (1) Jazz Ensemble

Students perform in a principal format for jazz expression. The large ensemble setting affords the opportunity to expand knowledge of jazz styles and repertoire as well as refine reading skills and improve spontaneous interaction with other musicians. Prereq., previous experience in large jazz ensembles. Recommended EMUS 3427 or equiv. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

MUSC-5435 (2) Collaborative Literature for Piano with Strings

Study of all forms string repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered spring only.

College of Music | Music | Keyboard

EMUS-5437 (1) Jazz Combo

Allows students the opportunity to perform in the principal format for jazz expression. The small group setting affords performers the opportunity to refine improvisation skills, improve spontaneous interaction with musicians and expand knowledge of jazz styles and repertoire. Prereq., previous performance experience in small jazz combos. Recommended EMUS 3437, or equiv. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

MUSC-5443 (3) Teaching Instrumental Music

For graduate music education majors. Same as MUSC 4443. Offered spring only.

College of Music | Music | Music Education

MUSC-5444 (2) Vocal Pedagogy

In depth study of the physiology, acoustics, and health aspects of the singing voice. Recommended for all graduate students in voice. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

EMUS-5447 (1) Guitar Ensemble

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

MUSC-5454 (2) Repertory for Young Voices

Survey of the solo repertoire for young voices, the physiological aspects of mutational voices, techniques of vocalizing young voices, and class voice procedure. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice

EMUS-5457 (1) Electronic Music Ensemble

Explores performance, composition, and the history of electronic music, including 20th century art music on through to electronic music in contemporary popular culture. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

MUSC-5464 (2) French Song Literature

Provides an extensive analytical and historical discussion of French song literature styles, from the 12th century to the present.

College of Music | Music | Voice

EMUS-5467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, African American, and Asian American, as well as music from the mother cultures of these groups. Prereq., graduate standing or instructor consent. Same as EMUS 1467 and 3467. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 3477.

College of Music | Music Ensembles

MUSC-5484 (2) Graduate Seminar in Vocal Pedagogy

A thorough investigation of the challenges of studio voice pedagogy, including corrective techniques, psychological philosophies, and video analysis of student teaching. Examination and evaluation of comparative methodologies of vocal technique. Prereq., MUSC 5444 or instructor consent required.

College of Music | Music | Voice

PMUS-5497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. Class may fulfill voice literature requirements when appropriate classes are not offered. Also available: weekly individual coaching to prepare for voice recitals and other projects. Diction, musical styles, and interpretation (music and text) are the main focus of this course. May be repeated up to 12 credit hours. for graduate voice students and collaborative pianists. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Voice



MUSC-4193 (1) Student Teaching Seminar

Required for all music student teachers. Addresses topics of concern to beginning teachers including classroom management, interpersonal skills, legal issues, job search strategies, and teaching portfolio development. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4203 (1) Music Methods Practicum

Taken concurrently with either MUSC 4113, 4313, or 4443. Provides students with opportunities to observe and practice the use of various teaching techniques and relate them to concepts presented in the methods course. Students consult with the instructor to determine appropriate placements in schools. Prereq., MUSC 2103. Coreq., MUSC 4113, 4313, or 4443. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4255 (2) Service Playing Techniques

Study of church music for liturgical and non-liturgical denominations; includes hymn playing, anthem accompaniments, basics of conducting from the organ console and improvisation, and selection of organ music appropriate to the requirements of the church year and other special services. Same as MUSC 5255.

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MUSC-4285 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4295. Same as MUSC 5285.

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MUSC-4288 (2-3) Macintosh-based Web Server Fundamentals for Musicians and Educators

Designed for music students. Teaches concepts and skills necessary to develop, host, and maintain Macintosh-based web servers and to create and serve multimedia files including video, MP3, MIDI, and PDF.

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MUSC-4295 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4285. Same as MUSC 5295.

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MUSC-4313 (3) Teaching Choral Music

Examines choral music curricula, instructional materials, and teaching techniques appropriate for secondary choral settings. Also addresses administrative strategies for choral music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5313. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4325 (2) Keyboard Literature 1

Surveys keyboard music from 1600 to 1830. Restricted to College of Music majors only. Offered fall semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4335 (2) Keyboard Literature 2

Surveys keyboard music from 1830 to the present. Restricted to College of Music majors only. Offered spring semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

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TMUS-4403 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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TMUS-4403 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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TMUS-4493 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. Numbered TMUS 4403--4493. May be repeated for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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TMUS-5504 (1-3) Special Studies

Offers graduate studies in specific areas or special projects in selected areas. For master's degree students only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Prerequisites: Restricted to Graduate Students only.

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TMUS-5594 (1-3) Special Study-Omnibus

Offers graduate studies in specific areas or special projects in selected areas. For master's degree students only. See current online Schedule Planner for specific course number. Numbered TMUS 5504--5594. May be repeated for additional credit.

College of Music | Thesis Music

TMUS-5605 (1-3) Special Studies

Offers advanced graduate studies in specific areas or special projects in selected areas. For doctoral degree students only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-5695 (1-3) Special Study-Omnibus

Offers advanced graduate studies in specific areas or special projects in selected areas. For doctoral degree students only. See current online Schedule Planner for specific course number. Numbered TMUS 5605--5695. May be repeated for additional credit.

College of Music | Thesis Music

TMUS-6947 (1) Candidate for Master of Music

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-6956 (2) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-6957 (2) Master's Thesis 2

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8019 (1) Precandidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8029 (1) Candidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8119 (1-4) Composition Project 1

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Restricted to DMA composition students. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8129 (1-4) Composition Project 2

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Prereq., TMUS 8119. Restricted to DMA composition students. May be repeated up to 4 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8219 (3) Dissertation Project 1 (Solo Recital, Choral Concert, Composition)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8229 (3) Dissertation Project 2 (Solo Recital, Choral Concert, Composition, Vocal Pedagogy)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8239 (3) Diss Proj 3 (Chamber Music Recital, Vocal Pedagogy Project, Choral Project, Composition Recital)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8249 (3) Diss Proj 4 (Chamber Music Recital, Choral Project, Composition Recital, Wind/Percussion Practicum).

Prerequisites: Restricted to Graduate Students only.

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TMUS-8259 (3) Dissertation Project 5 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8269 (3) Dissertation Project 6 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8279 (1-3) Performance Research Document 1

Prerequisites: Restricted to Graduate Students only.

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TMUS-8289 (1) Performance Research Document 2

Prerequisites: Restricted to Graduate Students only.

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TMUS-8299 (1) Performance Research Document 3

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8309 (1) Performance Research Document 4

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8319 (3) Repertoire Project

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8329 (2-6) Document/Pedagogy Project

Prerequisites: Restricted to Graduate Students only.

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MUSC-4405 (2) Basso-Continuo Accompaniment

Studies the history, theory, and practice of Basso-continuo accompaniment. Provides practical instruction in realizing harmony from a given bass line (figured or unfigured), projecting affect, and creating dynamics at the harpsichord. Emphasizes individual cognition and creativity. Recommended prereqs., MUSC 2325 and PMUS 1586. Same as MUSC 5405. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4443 (3) Teaching Instrumental Music

Examines instrumental music curricula, instructional materials, and teaching techniques appropriate for rehearsal, class, and lesson settings. Also addresses administration strategies for instrumental music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5442. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

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TMUS-4493 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. Numbered TMUS 4403--4493. May be repeated for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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PMUS-4517 (2) Orchestral Repertoire

Trains practice techniques for String Players to master orchestral excerpts needed for all orchestra and festival auditions. Through careful listening students learn to improve the four basic elements of orchestral excerpt preparation: Rhythm, Intonation, Tone Quality, Interpretation. Prerequisites: Restricted to Music majors or graduate students only.

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MUSC-4583 (2) Inclusive Music Classroom

Surveys strategies necessary for teaching music to all students, including those with special needs. Offered fall of even-numbered years. Prereqs., MUSC 2103 and 3133. Recommended prereq., MUSC 4113. Restricted to College of Music majors only. Same as MUSC 5583. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4608 (1) Advanced Studies in the Alexander Technique

Continue of MUSC 2608 with greater concentration on utilizing Alexander principles in specialized activity. Prereq., MUSC 2608 or instructor consent. Prerequisites: Requires prerequisite course of MUSC 2608. Restricted to College of Music undergraduate students only.

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MUSC-4712 (3) Renaissance Music

Provides repertory and analysis of polyphonic music 1400-1600. Prereq., MUSC 3802. Restricted to College of Music majors only. Same as MUSC 5712. Prerequisites: Requires pre-requisite class of MUSC 3802. Restricted to College of Music undergraduate students only.

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MUSC-4752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Prereq., MUSC 3812. Restricted to College of Music majors only. Same as MUSC 5772. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4802 (3) Studies in 20th Century Music

Offers intensified work in history of music in the 20th century. Topics vary from year to year. Prereq., MUSC 3812. Restricted to junior or senior College of Music majors only. Same as MUSC 5802. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature. Prereq., MUSC 3812 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4872 (3) Late 18th and 19th Century Music

Examines music and writings about music during the Classic and Romantic eras of the Western tradition, 1750-1900. Emphasizes historical and stylistic analysis and current musicological research. Recommended prereq. or coreq., MUSC 3812. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4892 (3) Latin American Music

Explores music of cultures south of the United States, emphasizing the relationships of music and culture in folk, popular, and art styles. Same as MUSC 5892. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

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MUSC-4908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

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TMUS-5504 (1-3) Special Studies

Offers graduate studies in specific areas or special projects in selected areas. For master's degree students only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Prerequisites: Restricted to Graduate Students only.

[College of Music](#)
[Thesis Music](#)

EMUS-5507 (1) Chamber Music

Prerequisites: Restricted to College of Music graduate students only.

[College of Music](#)
[Music Ensembles](#)

MUSC-5564 (2) German Song Literature

Provides an extensive analytical and historical discussion of German song literature styles, from the 18th century to the present.

[College of Music](#)
[Music](#)
[Voice](#)

MUSC-5583 (2) The Inclusive Music Classroom

For graduate music education majors. Same as MUSC 4583. Prerequisites: Restricted to Graduate Students only.

[College of Music](#)
[Music](#)
[Music Education](#)

TMUS-5594 (1-3) Special Study-Omnibus

Offers graduate studies in specific areas or special projects in selected areas. For master's degree students only. See current online Schedule Planner for specific course number. Numbered TMUS 5504--5594. May be repeated for additional credit.

College of Music | Thesis Music

TMUS-5605 (1-3) Special Studies

Offers advanced graduate studies in specific areas or special projects in selected areas. For doctoral degree students only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

MUSC-5608 (1) Graduate Studies in the Alexander Technique

Study of the relationship of kinesthetic perception and postural reflexes to physical coordination in performance. Analysis and research regarding Alexander's principles. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-5642 (3) Jazz History and Literature

Studies musical trends and cultural forces influencing jazz, with analysis of scales, improvisational styles, melodic and motivic variations, transcriptions, and orchestrations from significant periods in its history. Prereq., MUSC 3642 or instructor consent. Offered spring only.

College of Music | Music | Musicology

MUSC-5666 (2) Chamber Music Literature: Woodwinds

Provides a stylistic-historical survey in various genres from Baroque era to present. May be repeated up to 12 total credit hours. Offered every other spring.

College of Music | Music | Choral and Instrumental Music

TMUS-5695 (1-3) Special Study-Omnibus

Offers advanced graduate studies in specific areas or special projects in selected areas. For doctoral degree students only. See current online Schedule Planner for specific course number. Numbered TMUS 5605--5695. May be repeated for additional credit.

College of Music | Thesis Music

MUSC-5708 (2) Introduction to Music Bibliography and Research

Explores basic informational sources about music and musicians; a study of bibliographic forms, research, and writing techniques employed in music research papers, theses, and dissertations. Required in all master's degree programs. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Interdepartmental Courses

MUSC-5712 (3) Renaissance Music

Provides a repertory and analysis of polyphonic music 1400-1600. Same as MUSC 4712.

College of Music | Music | Musicology

MUSC-5722 (1) Sight-Reading Medieval and Renaissance Music Literature

Provides an opportunity to read through, sing, play, study, and discuss ancient repertoires more intensively than is normally possible in either music history lecture classes, seminars, or chamber music ensembles. Evaluation is based on active participation, out-of-class research, and final in-class group-performance projects. Recommended for graduate students in historical musicology and choral conducting. May be repeated up to 6 total credit hours.

College of Music | Music | Musicology

MUSC-5742 (3) Performance Practice of Early Music

Examines instrumental and vocal performance practices through the 18th century. Topics may vary from year to year. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics.

College of Music | Music | Musicology

MUSC-5762 (3-4) History of Choral Literature

Provides a seminar in analysis of musical style and history of choral repertory. Those wishing review of literature and repertory may enroll for 4 credit hours.

College of Music | Music | Musicology

MUSC-5772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Restricted to graduate students. Same as MUSC 4772.

College of Music | Music | Musicology

MUSC-5802 (3) Studies in 20th Century Music

Same as MUSC 4802. Prereq., graduate standing.

College of Music | Music | Musicology

MUSC-5808 (1) Advanced Alexander Technique for Graduate Students

Continues investigation of the benefits of Alexander's principles regarding mind-body awareness begun in MUSC 5608. Increased emphasis on utilizing principles in specialized activity. Analysis and research regarding musical activities. May be repeated up to 3 total credit hours. Prereq., MUSC 5608 or instructor consent.

College of Music | Music | Interdepartmental Courses

MUSC-5812 (3) Symphonic Literature

Studies literature for orchestra, band, and other symphonic ensembles including pre-Classical, Classical, Romantic, and 20th century.

College of Music | Music | Musicology

MUSC-5822 (3) Ancient and Medieval Music

Surveys sources from the ancient Greeks to the early Christian era and music from the 8th to the 15th century.

College of Music | Music | Musicology

MUSC-5832 (3) Studies in American Music

Offers intensified work in folk, popular, and art music of the United States.

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College of Music | Music | Musicology

MUSC-5842 (3) Aesthetics of Music

Surveys various philosophies of music in writings of philosophers, psychologists, sociologists, composers, critics, and historians. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature.

College of Music | Music | Musicology

MUSC-5872 (3) Late 18th and 19th Century Music

May be repeated up to 12 total credit hours. Same as MUSC 4872.

College of Music | Music | Musicology



MUSC-4957 (1-4) Senior Thesis

Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4958 (2) Community Performances

Designed for the aspiring professional performer. Through classroom theory and off-campus application, acquire skills in programming for and communicating with diverse audiences, marketing & PR, and new paradigms of concert presentation. Will result in an actual musical presentation in the community. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

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MUSC-4988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 5988.

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MUSC-4997 (1) Senior Recital

Prereq., MUSC 3997. Prerequisites: Requires pre-requisite class of MUSC 3997. Restricted to College of Music undergraduate students only.

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MUSC-5002 (3) Proseminar in Historical Musicology

Prepares students to pursue independent research in the history of music. Meeting as a seminar, the course focuses on the nature of evidence, methods and tools of research, and theoretical or historiographic issues. Prerequisites: Restricted to Graduate Students only.

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MUSC-5011 (2) 16th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including FREE, TWO- and THREE-part imitative counterpoint in the style of Palestrina. Provides a foundation in species counterpoint, working towards free counterpoint; stresses analysis and composing in 16th-century styles. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5012 (3) West African Music and Dance

Studies musical and dance traditions and current practices. Prereq., MUSC 4012 or instructor consent. Same as DNCE 5054. Prerequisites: Restricted to Graduate Students only.

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MUSC-5021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including INVENTION, SUITE, and FUGUE. Provides a foundation in species counterpoint; stresses analysis and composing in the styles. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5026 (2) Percussion Literature

In-depth investigation of major original solo works for percussion, significant ensemble literature including chamber and large ensembles, and selected transcriptions. Prereqs., graduate standing in music and instructor consent.

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MUSC-5036 (2) Brass Literature

Investigates major original solo works for trumpet, horn, trombone, euphonium, and tuba, and ensemble literature including chamber and large settings. Offered every other spring semester.

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MUSC-5041 (2) Advanced Orchestration

Provides an advanced study of orchestration techniques through score analysis and student projects. Offered fall only.

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MUSC-5061 (3) Advanced Tonal Analysis

Surveys tonal analytical techniques. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall only. Prerequisites: Restricted to Graduate Students only.

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MUSC-5071 (3) Post-tonal Theory and Analysis I

Focuses on theory and analysis of post-tonal literature pre-1945. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall and every other spring. Prerequisites: Restricted to Graduate Students only.

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MUSC-5078 (1) Piano Technician for Pianists

Same as MUSC 4078. Prerequisites: Restricted to Graduate Students only.

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MUSC-5081 (3) Applications in Music Technology

Presents advanced strategies for applying computer technology in several musical disciplines. Emphasizes the use of technology in composition, music theory, and music education. Offered fall only. Prerequisites: Restricted to Graduate Students only.

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MUSC-5091 (3) Contemporary Jazz Theory

Studies contemporary approaches to jazz improvisation and composition. Analysis of innovative composition and improvisation and strategies for integration of the material into a personal vocabulary are explored. Prereq., MUSC 3081. Offered spring only.

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MUSC-5103 (3) Teaching General Music

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

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MUSC-5106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. For graduate students. Same as MUSC 4106.

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MUSC-5112 (3) Proseminar in Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Restricted to graduate students who have passed or remediated the World Music portion of their Musicology preliminary exams. Prerequisites: Restricted to College of Music graduate students only.

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MUSC-5121 (3) Advanced Topics in Music Technology

Conducts advanced research in techniques and tools of music technology. Topics vary from term to term and may include: user interfaces for computer music; advanced sound design; digital modeling of acoustic sounds; computer-aided analysis of sound; modeling music intelligence in real time. Lectures and work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 5081 or instructor consent required.

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MUSC-5136 (2) Advanced Conducting

Offers advanced work in conducting. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

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MUSC-5142 (3) American Indian Music

Examines Native North American musical cultures, emphasizing music as an integral part of religious expression and community life. Restricted to graduate music majors. Prerequisites: Restricted to Graduate Students only.

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MUSC-5143 (2) Developing Children's Choirs

Restricted to College of Music graduate students only. Same as MUSC 4143. Prerequisites: Restricted to College of Music graduate students only.

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Courses

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MUSC-5882 (3) Studies in 18th and 19th Century Music

Meets as a seminar and examines selected topics in Classic and Romantic music, 1750-1900. Topics vary from year to year.

College of Music | Music | Musicology

MUSC-5892 (3) Latin American Music

Restricted to graduate students. Same as MUSC 4892.

College of Music | Music | Musicology

MUSC-5908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites:

Restricted to College of Music undergraduate students only.

College of Music | Music | Music Entrepreneurship

MUSC-5968 (2) Entrepreneurial Ventures in the Arts

Previously Topics in Arts Entrepreneurship, this course prepares students to evaluate opportunities in their specific arts field by analyzing existing arts organizations and then applying entrepreneurial concepts to create new enterprises. Topics for research and discussion include current issues in the arts, introduction to entrepreneurship, preparing a business feasibility study, market

information for new ventures, and funding sources. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Entrepreneurship

MUSC-5988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 4998.

College of Music | Music | Music Entrepreneurship

MUSC-6041 (3) Orchestration since 1940

Studies significant and distinctive orchestration techniques of the 20th century, concentrating on works written since 1940. Restricted to doctoral students.

College of Music | Music | Theory and Composition

MUSC-6051 (3) Pedagogy of Music Theory

Studies methods and materials for teaching undergraduate music theory, aural skills, and analysis. Prereq., passed general written theory and aural skills prelim exam, or completed remediation.

College of Music | Music | Theory and Composition

MUSC-6113 (2) Foundations of Music Education

Surveys historical and philosophical bases of contemporary music education. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-6133 (2) Comprehensive Musicianship through Performance

Explores curricular models for music education. Emphasizes comprehensive musicianship and standards-based frameworks for curriculum and development. Restricted to graduate students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-6193 (1-3) Selected Studies in Music Education

May be repeated up to 12 total credit hours. Prereq., consent of instructor and music education chair. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-6203 (2) Psychology of Music Learning

Provides an overview of psychological concepts relevant to music teaching and learning. Topics include learning theories, selected individual difference variables (motivation, anxiety, creativity, and personality), physiological structures related to hearing, psychoacoustics, and approaches to examining musical ability (e.g. brain research, music aptitude, and skill acquisition). Restricted to graduate students. Offered spring only.

College of Music | Music | Music Education

MUSC-6213 (2) Assessment of Music Learning

Provides an overview of traditional and contemporary approaches to music assessment. Topics include psychometrics, standardized tests, test construction, grade reports, and student portfolios. Restricted to graduate students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-6223 (2) Sociology of Music Education

Studies sociological perspectives related to music education. Topics include functions and uses of music; teacher and student role/identity development; social aspects of music performance, and cultural perspectives on music learning. Recommended prereq., MUSC 6113. Restricted to graduate students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-6233 (2) Pedagogy of Music Teaching and Learning

Explores four topics (reflective/critical thinking, teacher effectiveness, cultural/program contexts, teachers' lives/career development) relevant to long-term teacher development. Includes individualized feedback on teaching. Open to graduate students in music education and performance-pedagogy. Offered spring of odd-numbered years. Restricted to MME+ students in their second or third year of the program. Recommended prereq., MUSC 6113 and/or significant teaching experience.

College of Music | Music | Music Education

MUSC-6325 (2) Seminar in Piano Literature

Provides an intensive study of a selected area of repertoire or history. May be repeated up to 6 total credit hours. Restricted to doctoral students or instructor consent required. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-6801 (3) Advanced Topics in Music Theory

Intensive study of a specialized topic in theory and analysis. Students will be guided in critical reading and analysis, class presentations, and independent research. Prereqs., graduate preliminary exams passed, and 6 credit hours of graduate-level theory. Restricted to MUSD and MUAD students. Prerequisites: Restricted to Music (MUSD or MUAD) majors only.

College of Music | Music | Theory and Composition

MUSC-6822 (3) Advanced Studies in Musicology

Intensive study of a specialized topic in musicology. Students will be guided in critical reading, historical or ethnographic issues, analysis, oral presentations, and independent research. May be repeated up to 6 total credit hours. prereq., MUSC 5708. Restricted to MUAD or MUSD majors. Prerequisites: Restricted to Music (MUAD or MUSD) graduate students only.

College of Music | Music | Musicology

TMUS-6947 (1) Candidate for Master of Music

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-6956 (2) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-6957 (2) Master's Thesis 2

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

MUSC-7046 (3) Seminar in Jazz Literature

Provides advanced study in jazz literature and styles. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires class presentations and a major paper or project. May be repeated up to 6 total credit hours. Recommended prereqs., MUSC 5091 and 5642. Restricted to doctoral students. Offered every other year.

College of Music | Music | Choral and Instrumental Music

MUSC-7103 (3) Historical Research in Music Education

Topics include oral history, archival collections, data verification, and critiquing/publishing research. Students conduct one original research study. May be repeated up to 12 total credit hours. Restricted to doctoral students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-7113 (3) Quantitative Research in Music Education

Topics include sampling, questionnaire development, research design, intermediate and advanced statistics, presenting/publishing research, and research ethics. Students conduct an original research study. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-7138 (3) Contemporary Issues in College Teaching

Examines music teaching within colleges and universities, including the evolution of university music programs, undergraduate and graduate music curricula, music professors and their work, and sociopolitical issues. Offered spring of odd-numbered years.

College of Music | Music | Interdepartmental Courses

MUSC-7143 (3) Qualitative Research in Music Education

Topics include qualitative research traditions, site and participant selection, data collection and analysis methods, quality standards, and research ethics. Students conduct an original research study. Restricted to doctoral students in music education. Offered fall of odd-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

College of Music | Music | Music Education



MUSC-7203 (3) Doctoral Seminar in Music Education

Provides an advanced study of topics central to the music education profession. Requires class presentations and a major paper or project. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

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MUSC-7801 (3) Doctoral Seminar in Music Theory

Provides advanced study in theory. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires a major paper or project. Restricted to Music (MUSD) graduate students only. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Prerequisites: Restricted to Music (MUSD) graduate students only.

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MUSC-7822 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. Restricted to MUSD majors. See also MUSC 7832. Offered fall only. Prerequisites: Restricted to Music (MUSD) graduate students only.

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MUSC-7832 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. See also MUSC 7822. Offered spring only.

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TMUS-8019 (1) Precandidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

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TMUS-8029 (1) Candidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

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TMUS-8119 (1-4) Composition Project 1

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Restricted to DMA composition students. Prerequisites: Restricted to Graduate Students only.

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TMUS-8129 (1-4) Composition Project 2

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Prereq., TMUS 8119. Restricted to DMA composition students. May be repeated up to 4 total credit hours. Prerequisites: Restricted to Graduate Students only.

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TMUS-8219 (3) Dissertation Project 1 (Solo Recital, Choral Concert, Composition)

Prerequisites: Restricted to Graduate Students only.

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TMUS-8229 (3) Dissertation Project 2 (Solo Recital, Choral Concert, Composition, Vocal Pedagogy)

Prerequisites: Restricted to Graduate Students only.

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TMUS-8239 (3) Diss Proj 3 (Chamber Music Recital, Vocal Pedagogy Project, Choral Project, Composition Recital)

Prerequisites: Restricted to Graduate Students only.

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TMUS-8249 (3) Diss Proj 4 (Chamber Music Recital, Choral Project, Composition Recital, Wind/Percussion Practicum).

Prerequisites: Restricted to Graduate Students only.

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TMUS-8259 (3) Dissertation Project 5 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

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TMUS-8269 (3) Dissertation Project 6 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

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TMUS-8279 (1-3) Performance Research Document 1

Prerequisites: Restricted to Graduate Students only.

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TMUS-8289 (1) Performance Research Document 2

Prerequisites: Restricted to Graduate Students only.

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TMUS-8299 (1) Performance Research Document 3

Prerequisites: Restricted to Graduate Students only.

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TMUS-8309 (1) Performance Research Document 4

Prerequisites: Restricted to Graduate Students only.

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TMUS-8319 (3) Repertoire Project

Prerequisites: Restricted to Graduate Students only.

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TMUS-8329 (2-6) Document/Pedagogy Project

Prerequisites: Restricted to Graduate Students only.

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TMUS-8339 (3-6) Major Composition

Prerequisites: Restricted to Graduate Students only.

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TMUS-8998 (1-10) PhD Thesis

Prerequisites: Restricted to Graduate Students only.

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NAVR-3030 (3) Naval Engineering Systems

Studies in detail ship propulsion and related auxiliary systems. Emphasizes fossil fuel and nuclear steam and gas turbine systems. Stresses design constraints imposed by unique marine environment.

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NAVR-3040 (3) Weapons and Systems Analysis

Introduces theoretical concepts upon which modern naval weapons systems are designed and constructed. Specific areas of study include physics of underwater sound propagation, pulse radar theory, automatic tracking principles, and fundamentals of missile guidance.

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MILR-3052 (3) Military Operations and Training 1

Further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. Involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Prereq., consent of the Professor of Military Science.

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MILR-3062 (3) Military Operations and Training 2

Studies theoretical and practical applications of small unit leadership principles. Focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. Exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Prereq., consent of the Professor of Military Science.

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NAVR-3101 (3) Evolution of Warfare

Traces the development of warfare, focusing on the impact of military theorists and technical developments. Assists students to acquire a sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedent on military actions.

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AIRR-4010 (3) National Security Affairs/Preparation for Active Duty

Two 1 1/2-hour seminars and one 2-hour lab per week. Studies U.S. national security policy which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. Also includes blocks of instruction on the military profession/officership, the military justice system, and communicative skills. Provides future Air Force officers with the background of U.S. national security policy so they can effectively function in today's Air Force.

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NAVR-4010 (3) Leadership and Management 1

Comprehensively studies organizational leadership. Emphasizes motivation, communication, empowerment, and needs of subordinates. Studies the role of professional and personal ethics in organizational leadership.

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AIRR-4020 (3) National Security Forces in Contemporary American Society 2

Two 1 1/2-hour seminars and one 2-hour lab per week. a continuation of AIRR 4010. Includes defense strategy conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communication skills.

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NAVR-4020 (3) Leadership and Ethics

Studies the ethics and laws of armed conflict, analyzing the leadership responsibilities of officers in conflict. Studies the military justice system and Naval legal administrative procedures, comparing military law with civilian criminal and civil law. Defines the responsibilities of junior officers within the military justice system.

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NAVR-4030 (3) Navigation

Offers theory and practical application in the art of navigation: charts, publications, piloting, dead reckoning, navigation aids and instruments, time, sextant use, electronic fixing, global positioning system, and voyage planning.

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MILR-4072 (3) Officer Leadership and Development 1

Examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. Includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. Also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. Conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Prereq., consent of the Professor of Military Science.

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MILR-4082 (3) Officer Leadership and Development 2

Continues Milr 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. Also examines varied topics such as theory and practice of the military justice system, law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Prereq., consent of the Professor of Military Science.

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NAVR-4101 (3) Amphibious Warfare

Surveys the development of amphibious doctrine. Emphasizes the evolution of amphibious warfare in the 20th century and beyond. Explores present-day potential and limitations on amphibious operations, including the rapid force deployment concept.

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NAVR-4101 (3) Amphibious Warfare

Surveys the development of amphibious doctrine. Emphasizes the evolution of amphibious warfare in the 20th century and beyond. Explores present-day potential and limitations on amphibious operations, including the rapid force deployment concept.

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ATLS-3030 (3) Fundamentals of Digital Design

The fundamental goal of this course is to teach students how to use digital design tools effectively and compellingly. Through lectures, class discussions, projects and critiques, this course will cover the critical, theoretical, and technical skill sets necessary to become a more engaging, thoughtful, and articulate designer. Prereqs., ATLS 2000 and 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

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ATLS-3110 (3) Motion Design

An animation-based projects course that advances student understanding of motion design in today's culture. Through active production and critical analysis, students will create new media projects and critically examine the history, social implications, and impacts of these forms of mass media. Prereq., ATLS 2000. Recommended prereq., ATLS 3010.

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ATLS-3112 (1-3) Digital and Social Systems Professional Development

Supports students in developing professional skills and practices in human computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as CSCI 3112.

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ATLS-3120 (3) Net Presence

An Internet-based projects course that advances student understanding of Internet culture. Through active production and critical analysis, students will explore their individual roles in the digital landscape and critically examine the social implications and impacts of digital communities. Prereqs., ATLS 2000 and 3010. Recommended prereq., ATLS 3020.

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ATLS-3500 (1-3) Client Projects in Technology, Arts and Media

Allows undergraduate students to work on collaborative projects with faculty and with external organizations under faculty supervision. The course will focus on teamwork, conceptual planning, technical design and development, and working within real-world client environments. Critical skills include project research, planning, design, development, trouble-shooting, and presentation. Prereqs., ATLS 2000, 3010, or instructor consent. Recommended prereq., ATLS 3020. May be repeated up to 6 total credit hours.

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ATLS-3519 (1-3) Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 12 total credit hours for different topics. Prereq., ATLS 2000. Recommended prereq., ATLS 3010. Same as ATLS 3519, 5519 and 6519.

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ATLS-4010 (3) Capstone Projects

The focus of this advanced practicum course is the development of an individual thesis project. Specific class sessions will feature a combination of lectures, demonstrations, guest speakers, lab sessions, and critiques. This course also entails group work, portfolio development, critical theoretical readings, and a significant written component. May be repeated up to 6 total credit hours. Prereqs., ATLS 2000, 3010, and 3020. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

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ATLS-4519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 9 total credit hours. Prereq., instructor consent. Recommended prereqs., ATLS 2000, ATLS 3010, and ATLS 3020. Same as ATLS 3519, 5519 and 6519.

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ATLS-4809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

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ATLS-4900 (1-6) Undergraduate Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on research or a creative project guided by faculty. May be repeated up to 9 total credit hours. Prereqs., ATLS 3010, 3020, and consent of instructor.

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ATLS-5150 (1) Managing Effectively in a Changing Telecommunications Environment

Provides students with an opportunity to join international managers and policy makers from around the world in an intensive seminar focused on the challenges of managing in a telecommunications environment in an era of technological change. Guest lecturers provide an effective overview of the cutting-edge issues managers face in telecom and technology companies around the world. TLEN 5150 and ATLS 5150 are the same course.

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ATLS-5210 (3) Global Development I

Introduces students to the theories and policy of international development. The course will examine the role of multilateral agencies, foundations, aid organizations, corporate entities and academia in development as both an industry and a research field. The course will focus on development movements and their outcomes, the inter-related nature of development and its effect on policies and programs, and critiques. Prerequisites: Restricted to Graduate Students only.

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ATLS-5220 (3) Global Development II

Explores the impact of economic, geographical and social/cultural conditions on development outcomes through standalone course components taught by subject matter experts in region and in residency at ATLAS. Components may include, but are not limited to, development economics, environmental sustainability, public health, climate change, globalization and migration, religion, and gender as these broad themes relate to development. Prereq., ATLS 5210. Prerequisites: Restricted to Graduate Students only.

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ATLS-5230 (3) Case Studies in Information and Communication Technology for Development

Serves as foundation course for MS-ICTD program. Students will evaluate case studies across a range of technologies and applications. Students will learn how to match available technologies to human and environmental needs and resources, be introduced to the seminal work and leaders in the field, and discuss the future of ICTD as an emerging area of academic focus. Prerequisites: Restricted to Graduate Students only.

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ATLS-5240 (3) Information and Communication Technology for Development Laboratory

Prepares students for the semester-long practicum. Students work in teams to design ICTD interventions that address unique socio-economic and environmental development issues. Teams will design a variety of ICTD interventions, including telehealth and distance education programs, communication networks, and pro-development ICTD policies. Topics will be chosen by teams and guided by program faculty and external domain experts. Prereq., ATLS 5230. Prerequisites: Restricted to Graduate Students only.

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ATLS-5250 (3) Fieldwork Methods for ICTD Practitioners

Introduces methods and models that can be employed in ICTD program development and deployment. Examines the applications of participatory research, value-centric design, program scale, cross-disciplinary work, and appropriate monitoring and evaluation. The goal of this course is to build student confidence around existing evaluation toolkits and methods, while advancing multi-method approaches to designing and analyzing ICTD initiatives. Prerequisites: Restricted to Graduate Students only.

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ATLS-5519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

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ATLS-5610 (6) Startup Practicum

Presumes that entrepreneurship can be learned through the conception, build, and launch of an original product or service by student teams within a single semester. Immerses students in the daily leadership and innovation challenges of the startup environment and serves as a clinic in thinking, decision making and mental agility that will benefit any area of business--not just startups.

Prerequisites: Restricted to Graduate Students only.

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ATLS-5620 (3) User Centered Design 1

Emphasizes that user-centered design is the first and primary consideration in the design process. UCD teaches how to design successful interactions from research into users' behaviors, attitudes and expectations via three key elements to designing successful user experiences: 1) Listen, Observe, and Research; 2) Concept and Design for Your Users; 3) Deliver/Launch. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5630 (3) Front-End Development

Covers the front end environment--HTML 5, CSS3, JS. Introduces students to HTML and emphasizes semantic use of elements and standards-based, valid code. CSS use focuses on separating content from presentation in order to decrease maintenance time, speed up development, improve download speed, and design capabilities. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5640 (4) Design Thinking

Explores design thinking and how it can be applied conceptually and practically to innovation in areas as diverse as business organization and product development to topics and areas including but not limited to, story, design, UX, interaction design, communication strategy and presentation. Fast-paced, project-based, and immersive, students will work in small teams to discover solutions to real-world problems. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5650 (3) Introduction to Programming

Provides a hands-on introduction to programming logic, environments, and execution using Ruby as the primary programming language. Covers basic programming principle, syntax, design patterns, and best industry practices while focusing on developing elegant, problem-solving skills through code. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5660 (3) Creative Code

Exposes students to front-end, web-based design and development processes and best practices. WordPress will be used as the back end CMS. Students will learn how to design and develop using WordPress as a framework. At the end of the semester, students will present a final project to illustrate what they have learned and the logic of their build. Recommended prereqs., exposure to HTML, CSS, JavaScript, PHP and MySQL, and previous experience with WordPress for blogging and/or content publication. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5670 (3) Content Strategies

Experiments with different frameworks on how to combine messaging with creative to communicate complex ideas, brand story, product, and finally measure success. Gain experience and expertise with the various content types and channels, with an understanding of how to apply them and the capabilities to do so in solving creative and business problems. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5900 (1-6) Masters Level Independent Study

Provides opportunities for independent study and research at the Masters level. Students work on research project guided by faculty. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS graduate students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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ATLS-6519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-6910 (6) Information and Communication Technology for Development Practicum

This practicum allows MS-ICTD students to synthesize what they have learned and test their readiness for a career in ICTD. Practicum assignments are arranged under the supervision of the MS-ICTD Program Director and involve work with a non-governmental organization, development agency or technology/policy entity. Successful completion is required for graduation from the MS-ICTD Program. Prereqs., ATLS 5210,5220, 5230, 5240 and 5250.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-7000 (1) ATLAS Seminar

This student/faculty seminar critically examines issues in technology, media and society from the multiple interdisciplinary perspective of the gathered participants. Topics may include: IT and business, security, ethics, globalization, digital divide, IT and education, human computer interaction and others. May be repeated up to 8 total credit hours. Instructor permission required. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-7800 (2) Online Course Design for the Foreign Languages

Learn about the challenges and affordances of designing online foreign languages courses. Read research articles and book chapters pertaining to instructional design issues and online teaching strategies. Experiment with the latest forms of educational technologies. Students enrolled in the course will design and teach a two-week online language course. Prereq., two years of language teaching experience at the college level.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-7900 (1-6) Doctoral Level Independent Study

Provides opportunities for independent study and research at the Doctoral level. Students perform independent research under faculty supervision. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-8990 (1-10) Doctoral Dissertation

Approved research conducted under the supervision of members of the graduate faculty. Investigates some specialized topic or field in the area of interdisciplinary information and communication technology. All doctoral students must register for at least 30 hours of dissertation credit as part of the requirement for the ATLAS doctoral degree. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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PRLC-3810 (3) Global Issues in Leadership

Examines the challenges to leadership posed by major global issues. Problems in the areas of human rights, hunger, disease, large-scale collective violence, and environmental deterioration are explored with a special emphasis on the development of effective, long-term leadership strategies. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

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PRLC-4010 (4) 21st Century Leadership

An advanced course that focuses on critical analysis of leadership principles and techniques. Designed to provide theoretical and hands-on experience for individuals who wish to function in leadership roles at high levels of competence in the workplace and in the civic arena.

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PRLC-4081 (3) Icons of the American Republic

Examines the founding period of the United States through the events, political concepts and individuals depicted in the art exhibited in the U.S. Capitol Building in Washington, D.C. The course includes a visit to the U.S. Capitol Building, the floor of the U.S. House of Representatives, the floor of the U.S. Senate, and an exploration of the legislative process. Prereq., PSCI 1101 or 2012 or 2223 or 2004. Restricted to students with a minimum 3.4 GPA and 60 credit hours completed. PSCI 4081 and PRLC 4081 are the same course.

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RSEI-4150 (3) Energy Policy Project

Provides students with an opportunity to apply their knowledge of energy technologies, systems, and policies to energy policy issues. Specific topical coverage varies by semester. Example topics include natural gas fracking, automotive fuel economy standards, and natural gas exports. Students work in teams to research, prepare, and present a detailed and specific energy project proposal. Prereq., ENVS 3621. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5000 (3) Energy Science and Technology

Examines the basics of energy science and technology. Covers both conventional energy sources such as oil, natural gas, coal, nuclear and hydroelectric; and renewable/sustainable energy technologies including wind, solar, biomass, geothermal, and end-use efficiency. Investigates the technological promise and progress of each technology, as well as its limitations and challenges. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5001 (3) Renewable Energy Policy

Examines the technology, policy and politics of renewables. Technology includes the resource, science, and engineering aspects of renewables. Policy includes various policy levers used to influence renewables. Politics refers to political settings of renewables: how decision-makers perceive them, who supports/opposes policies, and how policies progress through the political process. Prereq., an introductory energy science and technology course. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5002 (3) The Business of Renewable Energy

Addresses the business of renewable energy, including opportunities and challenges with renewable electricity, renewable transportation fuels, and energy efficiency. Topics include energy markets, opportunity identification, life cycle analysis, economic analysis, policy impacts, and project financing of sustainable renewable energy business models. Prereqs., RSEI 5000 and 5001. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

RSEI-5100 (1) Renewable and Sustainable Energy Seminar

Examines a wide range of energy issues in seminar format. Students attend energy-related seminars and critique/evaluate the presented material. Open to graduate students from all disciplines. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

RSEI-5200 (3) Energy Topics Course

Covers timely topics related to renewable and sustainable energy. Specific offerings vary by semester. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Renewable and Sustainable Energy Institute

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RSEI-4150 (3) Energy Policy Project

Provides students with an opportunity to apply their knowledge of energy technologies, systems, and policies to energy policy issues. Specific topical coverage varies by semester. Example topics include natural gas fracking, automotive fuel economy standards, and natural gas exports. Students work in teams to research, prepare, and present a detailed and specific energy project proposal. Prereq., ENVS 3621. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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RSEI-5000 (3) Energy Science and Technology

Examines the basics of energy science and technology. Covers both conventional energy sources such as oil, natural gas, coal, nuclear and hydroelectric; and renewable/sustainable energy technologies including wind, solar, biomass, geothermal, and end-use efficiency. Investigates the technological promise and progress of each technology, as well as its limitations and challenges. Prerequisites: Restricted to Graduate Students only.

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RSEI-5001 (3) Renewable Energy Policy

Examines the technology, policy and politics of renewables. Technology includes the resource, science, and engineering aspects of renewables. Policy includes various policy levers used to influence renewables. Politics refers to political settings of renewables: how decision-makers perceive them, who supports/opposes policies, and how policies progress through the political process. Prereq., an introductory energy science and technology course. Prerequisites: Restricted to Graduate Students only.

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RSEI-5002 (3) The Business of Renewable Energy

Addresses the business of renewable energy, including opportunities and challenges with renewable electricity, renewable transportation fuels, and energy efficiency. Topics include energy markets, opportunity identification, life cycle analysis, economic analysis, policy impacts, and project financing of sustainable renewable energy business models. Prereqs., RSEI 5000 and 5001. Prerequisites: Restricted to Graduate Students only.

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RSEI-5100 (1) Renewable and Sustainable Energy Seminar

Examines a wide range of energy issues in seminar format. Students attend energy-related seminars and critique/evaluate the presented material. Open to graduate students from all disciplines.
Prerequisites: Restricted to Graduate Students only.

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RSEI-5200 (3) Energy Topics Course

Covers timely topics related to renewable and sustainable energy. Specific offerings vary by semester. Prerequisites: Restricted to Graduate Students only.

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ATLS-5620 (3) User Centered Design 1

Emphasizes that user-centered design is the first and primary consideration in the design process. UCD teaches how to design successful interactions from research into users' behaviors, attitudes and expectations via three key elements to designing successful user experiences: 1) Listen, Observe, and Research; 2) Concept and Design for Your Users; 3) Deliver/Launch. Prerequisites: Restricted to Graduate Students only.

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ATLS-5630 (3) Front-End Development

Covers the front end environment--HTML 5, CSS3, JS. Introduces students to HTML and emphasizes semantic use of elements and standards-based, valid code. CSS use focuses on separating content from presentation in order to decrease maintenance time, speed up development, improve download speed, and design capabilities. Prerequisites: Restricted to Graduate Students only.

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ATLS-5640 (4) Design Thinking

Explores design thinking and how it can be applied conceptually and practically to innovation in areas as diverse as business organization and product development to topics and areas including but not limited to, story, design, UX, interaction design, communication strategy and presentation. Fast-paced, project-based, and immersive, students will work in small teams to discover solutions to real-world problems. Prerequisites: Restricted to Graduate Students only.

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ATLS-5650 (3) Introduction to Programming

Provides a hands-on introduction to programming logic, environments, and execution using Ruby as the primary programming language. Covers basic programming principle, syntax, design patterns, and best industry practices while focusing on developing elegant, problem-solving skills through code. Prerequisites: Restricted to Graduate Students only.

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ATLS-5660 (3) Creative Code

Exposes students to front-end, web-based design and development processes and best practices. WordPress will be used as the back end CMS. Students will learn how to design and develop using WordPress as a framework. At the end of the semester, students will present a final project to illustrate what they have learned and the logic of their build. Recommended prereqs., exposure to HTML, CSS, JavaScript, PHP and MySQL, and previous experience with WordPress for blogging and/or content publication. Prerequisites: Restricted to Graduate Students only.

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ATLS-5670 (3) Content Strategies

Experiments with different frameworks on how to combine messaging with creative to communicate complex ideas, brand story, product, and finally measure success. Gain experience and expertise with the various content types and channels, with an understanding of how to apply them and the capabilities to do so in solving creative and business problems. Prerequisites: Restricted to Graduate Students only.

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ATLS-5809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

Prerequisites: Restricted to Graduate Students only.

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ATLS-5900 (1-6) Masters Level Independent Study

Provides opportunities for independent study and research at the Masters level. Students work on research project guided by faculty. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS graduate students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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ATLS-6519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

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ATLS-6910 (6) Information and Communication Technology for Development Practicum

This practicum allows MS-ICTD students to synthesize what they have learned and test their readiness for a career in ICTD. Practicum assignments are arranged under the supervision of the MS-ICTD Program Director and involve work with a non-governmental organization, development agency or technology/policy entity. Successful completion is required for graduation from the MS-ICTD Program. Prereqs., ATLS 5210, 5220, 5230, 5240 and 5250.

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ATLS-7000 (1) ATLAS Seminar

This student/faculty seminar critically examines issues in technology, media and society from the multiple interdisciplinary perspective of the gathered participants. Topics may include: IT and business, security, ethics, globalization, digital divide, IT and education, human computer interaction and others. May be repeated up to 8 total credit hours. Instructor permission required. Prerequisites: Restricted to Graduate Students only.

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ATLS-7800 (2) Online Course Design for the Foreign Languages

Learn about the challenges and affordances of designing online foreign languages courses. Read research articles and book chapters pertaining to instructional design issues and online teaching strategies. Experiment with the latest forms of educational technologies. Students enrolled in the course will design and teach a two-week online language course. Prereq., two years of language teaching experience at the college level.

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ATLS-7900 (1-6) Doctoral Level Independent Study

Provides opportunities for independent study and research at the Doctoral level. Students perform independent research under faculty supervision. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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ATLS-8990 (1-10) Doctoral Dissertation

Approved research conducted under the supervision of members of the graduate faculty. Investigates some specialized topic or field in the area of interdisciplinary information and communication technology. All doctoral students must register for at least 30 hours of dissertation credit as part of the requirement for the ATLAS doctoral degree. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

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JOUR-4272 (3) Principles of Public Relations

Introduces the economics, ethics, history, impact, practice, and social context of the public relations industry in America. Includes an analysis of public relations in agencies, corporations, political campaigns, social service organizations, universities, and other venues. Emphasizes writing for public relations, including fact sheets, press releases, reports, and speeches. Same as JOUR 5272. Restricted to Journalism majors with a minimum of 57 hours taken. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Print & Online Journalism](#)

JOUR-4282 (3) Public Relations Strategy and Campaigns

Develops and applies public relations programs, from identification of the problem through execution of public relations techniques. Prereq., JOUR 4272. Same as JOUR 5282. Prerequisites: Requires a prerequisite course of JOUR 4272.

[Journalism & Mass Communication Program](#) [Journalism](#) [Print & Online Journalism](#)

JOUR-4301 (3) Media Ethics

Provides students with an overview of the theories, ethics codes, and analytical models that are used in journalism, public relations, and advertising. Introduces students to a variety of ethical issues that can arise across media professions, as well as the industry practices that can lead to ethical lapses, and teaches students how to challenge those practices. Same as JOUR 5301. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-4311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4321 (3) Media Institutions and Economics

Focuses on the institutions and practices of the media industries. Surveys the histories, structures, and activities of these organizations and the contemporary issues surrounding them. Same as JOUR 5321. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Studies the construction, interconnections, and replications of gender, race, class, and sexuality in popular culture and how these constructs become cultural norms and mores. Uses critical methods with a focus on producing responsible viewers and readers. Same as JOUR 5331, WMST 4331. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4341 (3) International Media and Global Crises

Examines strengths and limits on media's role in globalized crises (e.g. financial, climate change, health) in light of changing distribution of global power. Introduction to current crises; context-analytical approach to media technologies, financing and uses; application to national cases. Restricted to JOUR and IAFS juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4344 (3) Video Documentary Production

Designed to give students the experience of researching, writing, shooting and editing their own documentaries. Prereq., JOUR 3644. Same as JOUR 5344. Prerequisites: Requires a prerequisite course of JOUR 3644.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4351 (3) Reporting Wars, Disasters, and Peace

Explores how journalists report international breaking news with a focus on war, disaster and peace and how these news events affect peoples' lives, governmental decisions and news media operations. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4354 (3) TV Reporting

Students learn basic broadcast reporting skills---where to find news and how to cover it, how to analyze and organize news stories. Skills are linked with advanced concepts of shooting and editing videotape in order to produce news stories on deadline. Prereqs., JOUR 3604 and 3644. Prerequisites: Requires pre-requisite courses of JOUR 3604 and 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4361 (3) TV and the Family in American Culture and Society

Examines the history and character of two central institutions in American society--the family and television--to gain deeper understanding of their formative and enduring roles. Topics include: intersecting histories of the family and television; economic logic of the TV industry and programming; representations of the family in television programming; how families use and interact with television. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr. & General Electives

JOUR-4403 (4) Advertising Campaigns

Gives students the opportunity to work in small groups to develop material for an actual client. Students examine basic principles of group dynamics and effective teamwork while conducting research, developing strategies and creating a multimedia campaign. All work is presented to the client. Prereq., JOUR 3463 or 3503. Prerequisites: Requires pre-requisite course of JOUR 3463 or 3503. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors with a minimum of 85 hours.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4453 (3) Advertising and Society

Examines criticisms and contributions of advertising in society and the economy. Same as JOUR 5453.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4502 (3) Reporting 3

Involves writing news and features about actual events for publication under deadline pressure. Lab to be arranged. Prereqs., JOUR 3552 and 4002. Restricted to News Editorial majors and with a minimum of 85 hours taken. Same as JOUR 5502. Prerequisites: Requires pre-requisite courses of JOUR 3552 and 4002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 85 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4503 (3) Advanced Creative Concepts

Builds on skills acquired in JOUR 3503 and 4513 to help students enhance their conceptual abilities and generate both print and integrated multimedia campaigns. Students work in teams to develop an extensive body of work that's exhibited in an awards show judged by advertising professionals. Prereqs., JOUR 3503 and 4513 and instructor consent.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4513 (3) Art Direction

Explores theories of visual communication, the visual imagination, and key principles of design. Develops students ability to express ideas through images and to create both effective visual concepts and layouts for a variety of media. Prereq., JOUR 3453 and instructor consent. Coreq. JOUR 3503.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4523 (3) Portfolio

Gives students an opportunity to develop an extensive body of work. Students create integrated campaigns, which include print, digital and guerilla ideas. Final portfolios are critiqued by both faculty and outside reviewers. JOUR 4503 and instructor consent.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4533 (3) Applied Consumer Insights

Provides an opportunity to use and master quantitative and qualitative research methods. Students conduct research and analyze data to determine the targets relationship with specific product categories and identify the emotional and practical needs that motivate purchase. Prereqs., JOUR 3403, 3453. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4543 (3) Strategic Brand Management

Examines the theory of branding: what brands are, how brands are created and measured, as well as strategies for managing brands and brand communication. Prereq., JOUR 3463. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4562 (3) Digital Journalism

Builds upon digital production skills through the creation of multimedia project. Applies media theory to evaluate digital media content and explore how digital forms influence the news industry, politics, culture, and society. Prereq., JOUR 3002. Same as JOUR 5562. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4602 (3) Editorial, Commentary and Opinion Writing

Concentrates on several of the subjective areas of journalism. Emphasizes editorial and column writing, editorial pages and blogging. Prereq., JOUR 3001. Same as JOUR 5602. Prerequisites: Requires a prerequisite course of JOUR 3001.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4614 (1-3) Advanced Audio Practices

Applies advanced skills in producing in-depth audio programming for radio stations in Colorado and for weekly discussion-critique sessions. Prereq., JOUR 3614.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4624 (4) News Team

Students participate in Newsteam Boulder a program broadcast live over the Boulder cable television system. Prereq., JOUR 4354. Same as JOUR 5624. Prerequisites: Requires pre-requisite course of JOUR 4354. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Broadcast News (BCNS) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4634 (1-3) Broadcast Projects

Covers interpretation, preparation, and/or reporting in programs for broadcast media. Prepares radio or television documentaries and informational/entertainment programs. Prereqs., JOUR 3604 and 3644, or instructor consent.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4651 (3) Media Law

Studies state and federal laws and court decisions that affect the media in order to develop knowledge of media rights and responsibilities and an understanding of the legal system. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

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JOUR-4674 (1-3) Television Production 3

Provides in-depth experience in directing and producing television programs. Prereq., JOUR 3674. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 85 hours taken. Prerequisites: Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 85 hours taken.

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JOUR-4684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Requires a prerequisite course of JOUR 3644. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 75 hours taken.

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JOUR-4702 (3) Arts/Cultural Reporting and Criticism

Emphasizes composition of criticism for the performing arts and other areas of entertainment. Prereq., JOUR 3001. Same as JOUR 5702.

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JOUR-4711 (3) Media and Culture

Examines culture in the form of discourse, symbols, and texts transmitted through the media. Explores the relationship between such mediated culture and social myth and ideology. Same as JOUR 5711.

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JOUR-4791 (3) Media and the Public

Provides an overview of how publishing in print and electronic forms has been tied closely to democratic ideals for centuries. Explores how the idea of the public is central to the theory and practice of media politics, and how the contested concepts of "the public sphere" and "public opinion" have long been linked to debates about the proper relationship between media and democratic citizenship. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5791. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4802 (3) Magazine and Feature Writing

Provides practice in writing freelance articles. Considers types, sources, methods, titles, illustrations, and freelance markets. Students submit work for publication. Prereq., JOUR 3001. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5802. Prerequisites: Requires prerequisite course of JOUR 3001. Restricted to Journalism and Mass Communication (JOUR) majors with a minimum of 75 hours taken.

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JOUR-4822 (3) Reporting on the Environment

Involves reporting and writing about the environment by taking into account the scientific, technological, political, economic, and cultural dimensions of environmental subjects. Same as JOUR 5822.

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JOUR-4841 (1-4) Undergraduate Independent Study

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JOUR-4871 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4872 (1-3) Special Topics: Print

Same as JOUR 5872. Prerequisites: Restricted to News-Editorial (NSED-BSJR or JNED-BSJR) students with 87-180 credits (Senior, Fifth Year Senior).

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-4873 (1-3) Special Topics

Restricted to Journalism majors with a minimum of 75 hours taken. Prereqs., JOUR 3453, 3463, and 3473. Prerequisites: Restricted to Advertising (ADVT) majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program Journalism Advertising & Media Design

JOUR-4874 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4875 (6) Special Topics: Boulder Digital Works

May be repeated up to 24 credit hours. Pass/fail only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-4931 (1-6) Internship

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5001 (1-4) Research in Journalism

Offers students the opportunity to participate in research projects with faculty members or pursue their own primary research interests.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5102 (3) Photojournalism Portfolio

Same as JOUR 4102.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-5201 (3) Media, Culture and Globalization

Same as JOUR 4201.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5272 (3) Principles of Public Relations

Same as JOUR 4272.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5282 (3) Public Relations Strategy and Campaigns

Prereq., JOUR 5272 or instructor consent. Same as JOUR 4282. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5301 (3) Media Ethics

Same as JOUR 4301.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5321 (3) Media Institutions and Economics

Same as JOUR 4321.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Same as JOUR 4331.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5344 (3) Video Documentary Production

Same as JOUR 4344.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-5453 (3) Advertising and Society

Same as JOUR 4453.

Journalism & Mass Communication Program Journalism Advertising & Media Design

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JOUR-5502 (3) Newsgathering 2

Prereqs., JOUR 5511 and 5552. Restricted to majors. Same as JOUR 4502. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5552 and is restricted to JOUR graduate students only.

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JOUR-5511 (3) Newsgathering 1

Covers problems and practice in reporting news of government, politics, the courts, and industry, business, science, and other areas involving public issues. For graduate students only. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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JOUR-5512 (3) In-Depth Reporting

Shows how to dig beneath the surface of issues and events. Focuses on research, interviewing, and writing. Prereq., JOUR 5511.

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JOUR-5514 (3) Newsgathering for Television

Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5521 (3) Precision Journalism

Instructs students in computer-assisted reporting, including a knowledge of commercial databases, global information networks, and the use of spreadsheets to analyze census data and other complex information. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5524 (3) Television Investigative Reporting

Covers how to produce quality, substantive, in-depth stories for television. Covers the basics of investigative reporting, research, and working with sources.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5552 (3) News Editing

Discusses principles and practice in copy editing and writing headlines for local and wire stories. Practice in page makeup, picture editing, and electronic editing. Prereq., JOUR 3001. Restricted to majors.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5562 (3) Digital Journalism

Same as JOUR 4562. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5602 (3) Editorial, Commentary and Opinion Writing

Prereq., JOUR 5511. Same as JOUR 4602. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5624 (4) News Team

Prereqs., JOUR 5511 and 5514. Same as JOUR 4624. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5514.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5634 (1-3) Broadcast Projects

Prereq., instructor consent. Same as JOUR 4634. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-5651 (3) Mass Communication Law

Studies state and federal laws and court decisions that affect mass communication in order to develop knowledge of mass media rights and responsibilities and an understanding of the legal system.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program Journalism Broadcast Journalism

JOUR-5702 (3) Arts/Cultural Reporting and Criticism

Prereq., JOUR 5511. Same as JOUR 4702. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program Journalism Print & Online Journalism

JOUR-5711 (3) Media and Culture

Same as Jour 4711.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5791 (3) Media and the Public

Same as JOUR 4791.

Journalism & Mass Communication Program Journalism Core Curr & General Electives

JOUR-5802 (3) Magazine and Feature Writing

Prereq., JOUR 5511. Same as JOUR 4802. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5812 (3) Science Writing

Helps students acquire the basic skills and knowledge required of science journalists. Also examines issues of scientific importance such as climate change, the nature of scientific knowledge, and how science is covered in various media. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5822 (3) Reporting on the Environment

Same as JOUR 4822.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5841 (1-3) Graduate Independent Study

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5851 (1-6) Graduate Professional Project

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5861 (3) Visual Communication

Visual communication involves understanding both perception of messages and construction of them. Students analyze their visual thinking abilities and develop habits of visual analysis and criticism, as well as visual communication skills. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5871 (1-3) Special Topics

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5872 (1-3) Special Topics: Print

Same as JOUR 4872. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5873 (1-3) Special Topics: Advertising

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JOUR-5874 (1-3) Special Topics: Electronic Media

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5931 (1-3) Internship

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JOUR-6051 (3) Media Theory

Studies theories and perspectives of mass communication and explores the role of mass media in society. Prerequisites: Restricted to Journalism & Mass Communication (JOUR), Communication (COMM or COMC) or Telecommunications (TELE) graduate students only.

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JOUR-6061 (3) Mass Communication Research

Continuation of JOUR 6051, emphasizing experimental and survey research methods.

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JOUR-6071 (3) Critical Theories of Media and Culture

Introduction to critical theories and analysis of media and popular culture. Examines major theoretical traditions and/or theorists that significantly inform media studies (e.g., culturalism, structuralism, Marxism, critical theory, feminism, psychoanalysis, post-structuralism) and applies these to media analysis and criticism. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6201 (3) Global Media and Culture

Covers mass communication within the international system, including similarities and differences in functions, facilities, and content; social theories of the press; and the international flow of mass communication. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6211 (3) Communication and International Development

Studies and analyzes communications technologies and techniques used in addressing social problems in developing countries.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6301 (3) Communication, Media, and Concepts of the Public

Introduces students to historical and contemporary uses of fundamental concepts in research and theory about media institutions, particularly public, community, mass, publicity, public space, public opinion, public interest, and the public sphere.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6311 (3) Seminar: Freedom of Expression

Studies free-speech issues in the context of current and historical philosophical foundations for freedom of expression.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6321 (3) Literary Journalism

Analyzes the work of journalists who became some of the greatest fiction writers of the 19th and 20th centuries, and examines the increasingly indistinct lines between journalism and narrative fiction. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6331 (3) Political Communication

Explores the dynamic relationships involving media and politics, focusing primarily on the American political system. Readings and seminar discussion incorporate normative and empirical perspectives on the media-politics complex. Areas covered include media effects on public opinion and policy, uses of media in governance, journalism sociology, coverage of elections, and implications of interactive media for governance and civic participation. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6341 (3) Children and the Media

Examining the concepts of children and childhood from the historical, social, cultural, economic and political perspectives, this course explores the interaction between mass media and the socialization and cultivation process of children and youth. Many theoretical traditions are used as a framework to study a variety of issues, such as multicultural literature for children and Disney's role in storytelling, and tween movies and the tweens. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6551 (3) Telecommunication Policy

Surveys historical and contemporary developments in telecommunications policy, emphasizing social and cultural dimensions, and focusing primarily on the context of the United States.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6651 (3) Media Law

Graduate seminar in communications law. Studies changing law and applied legal research techniques. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6661 (3) Media Ethics and Responsibility

Develops a theoretical framework with which to recognize and analyze ethical issues as they arise in the media. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6671 (3) Media, Myth, and Ritual

Anthropological and interpretative exploration of cultural practices of media audiences. Addresses theoretical and methodological implications of studying audiences from a culturalist perspective, with particular focus on media audience practices. Students engage in field research projects related to course content. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6711 (3) Mass Media and Pop Culture

Inquiry into relationship of the arts and the mass media, including study of critics, their function, and their works. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6721 (3) Message Effectiveness

Investigates how mass media messages work in terms of such effects as perception, learning and comprehension, and persuasion. Effectiveness is analyzed in terms of how well mass communication messages meet their objectives.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6771 (3) History of Mass Communication

Examines specialized areas in the history of mass communication. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6781 (3) Economic and Political Aspects of Mass Communication

Discusses economic problems and political issues relevant to newspapers, magazines, broadcasting, and CATV. Examines problems of telecommunications and the impact of future technology on mass communication.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6940 (1) Master's Degree Candidate

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-6951 (1-6) Master's Thesis

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7011 (3) Proseminar in Communication Theory 1

Introduces the principal concepts, literature, and theoretical and paradigmatic perspectives of media studies and mass communication and their ties and contributions to parallel domains in the social sciences and humanities. Prerequisites: Restricted to Communication (COMM or COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7021 (3) Proseminar in Communication Theory 2

Continuation of JOUR 7011. Prereq., JOUR 7011.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7051 (3) Qualitative Research Methods in Mass Communication

Examines various methods of qualitative data gathering and analysis in the mass media context. Prerequisites: Restricted to Graduate Students only.

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JOUR-7061 (3) Quantitative Research Methods in Mass Communication

Examines various methods of quantitative data gathering methods and analysis in the mass media context.

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JOUR-7871 (3) Special Topics

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JOUR-8991 (1-10) Doctoral Thesis

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JOUR-4301 (3) Media Ethics

Provides students with an overview of the theories, ethics codes, and analytical models that are used in journalism, public relations, and advertising. Introduces students to a variety of ethical issues that can arise across media professions, as well as the industry practices that can lead to ethical lapses, and teaches students how to challenge those practices. Same as JOUR 5301.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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JOUR-4311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course.

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JOUR-4321 (3) Media Institutions and Economics

Focuses on the institutions and practices of the media industries. Surveys the histories, structures, and activities of these organizations and the contemporary issues surrounding them. Same as JOUR 5321. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4361 (3) TV and the Family in American Culture and Society

Examines the history and character of two central institutions in American society--the family and television--to gain deeper understanding of their formative and enduring roles. Topics include: intersecting histories of the family and television; economic logic of the TV industry and programming; representations of the family in television programming; how families use and interact with television. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

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JOUR-4651 (3) Media Law

Studies state and federal laws and court decisions that affect the media in order to develop knowledge of media rights and responsibilities and an understanding of the legal system. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4711 (3) Media and Culture

Examines culture in the form of discourse, symbols, and texts transmitted through the media. Explores the relationship between such mediated culture and social myth and ideology. Same as JOUR 5711.

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JOUR-4791 (3) Media and the Public

Provides an overview of how publishing in print and electronic forms has been tied closely to democratic ideals for centuries. Explores how the idea of the public is central to the theory and practice of media politics, and how the contested concepts of "the public sphere" and "public opinion" have long been linked to debates about the proper relationship between media and democratic citizenship. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5791. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4841 (1-4) Undergraduate Independent Study

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JOUR-4871 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4931 (1-6) Internship

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JOUR-5001 (1-4) Research in Journalism

Offers students the opportunity to participate in research projects with faculty members or pursue their own primary research interests.

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JOUR-5201 (3) Media, Culture and Globalization

Same as JOUR 4201.

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JOUR-5301 (3) Media Ethics

Same as JOUR 4301.

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JOUR-5311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course. Prerequisites: Restricted to Graduate Students only.

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JOUR-5321 (3) Media Institutions and Economics

Same as JOUR 4321.

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JOUR-5331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Same as JOUR 4331.

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JOUR-5511 (3) Newsgathering 1

Covers problems and practice in reporting news of government, politics, the courts, and industry, business, science, and other areas involving public issues. For graduate students only.

Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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JOUR-5521 (3) Precision Journalism

Instructs students in computer-assisted reporting, including a knowledge of commercial databases, global information networks, and the use of spreadsheets to analyze census data and other complex information. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5651 (3) Mass Communication Law

Studies state and federal laws and court decisions that affect mass communication in order to develop knowledge of mass media rights and responsibilities and an understanding of the legal system.

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JOUR-5711 (3) Media and Culture

Same as Jour 4711.

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JOUR-5791 (3) Media and the Public

Same as JOUR 4791.

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JOUR-5841 (1-3) Graduate Independent Study

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JOUR-5851 (1-6) Graduate Professional Project

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JOUR-5861 (3) Visual Communication

Visual communication involves understanding both perception of messages and construction of them. Students analyze their visual thinking abilities and develop habits of visual analysis and criticism, as well as visual communication skills. Prerequisites: Restricted to Graduate Students only.

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JOUR-5871 (1-3) Special Topics

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5931 (1-3) Internship

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JOUR-6051 (3) Media Theory

Studies theories and perspectives of mass communication and explores the role of mass media in society. Prerequisites: Restricted to Journalism & Mass Communication (JOUR), Communication (COMM or COMC) or Telecommunications (TELE) graduate students only.

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JOUR-6061 (3) Mass Communication Research

Continuation of JOUR 6051, emphasizing experimental and survey research methods.

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JOUR-6071 (3) Critical Theories of Media and Culture

Introduction to critical theories and analysis of media and popular culture. Examines major theoretical traditions and/or theorists that significantly inform media studies (e.g., culturalism, structuralism, Marxism, critical theory, feminism, psychoanalysis, post-structuralism) and applies these to media analysis and criticism. Prerequisites: Restricted to Graduate Students only.

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JOUR-6201 (3) Global Media and Culture

Covers mass communication within the international system, including similarities and differences in functions, facilities, and content; social theories of the press; and the international flow of mass communication. Prerequisites: Restricted to Graduate Students only.

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JOUR-6211 (3) Communication and International Development

Studies and analyzes communications technologies and techniques used in addressing social problems in developing countries.

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JOUR-6301 (3) Communication, Media, and Concepts of the Public

Introduces students to historical and contemporary uses of fundamental concepts in research and theory about media institutions, particularly public, community, mass, publicity, public space, public opinion, public interest, and the public sphere.

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JOUR-6311 (3) Seminar: Freedom of Expression

Studies free-speech issues in the context of current and historical philosophical foundations for freedom of expression.

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JOUR-6321 (3) Literary Journalism

Analyzes the work of journalists who became some of the greatest fiction writers of the 19th and 20th centuries, and examines the increasingly indistinct lines between journalism and narrative fiction. Prerequisites: Restricted to Graduate Students only.

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JOUR-6331 (3) Political Communication

Explores the dynamic relationships involving media and politics, focusing primarily on the American political system. Readings and seminar discussion incorporate normative and empirical perspectives on the media-politics complex. Areas covered include media effects on public opinion and policy, uses of media in governance, journalism sociology, coverage of elections, and implications of interactive media for governance and civic participation. Prerequisites: Restricted to Graduate Students only.

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JOUR-6341 (3) Children and the Media

Examining the concepts of children and childhood from the historical, social, cultural, economic and political perspectives, this course explores the interaction between mass media and the socialization and cultivation process of children and youth. Many theoretical traditions are used as a framework to study a variety of issues, such as multicultural literature for children and Disney's role in storytelling, and tween movies and the tweens. Prerequisites: Restricted to Graduate Students only.

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JOUR-6551 (3) Telecommunication Policy

Surveys historical and contemporary developments in telecommunications policy, emphasizing social and cultural dimensions, and focusing primarily on the context of the United States.

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JOUR-6651 (3) Media Law

Graduate seminar in communications law. Studies changing law and applied legal research techniques. Prerequisites: Restricted to Graduate Students only.

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JOUR-6661 (3) Media Ethics and Responsibility

Develops a theoretical framework with which to recognize and analyze ethical issues as they arise in the media. Prerequisites: Restricted to Graduate Students only.

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JOUR-6671 (3) Media, Myth, and Ritual

Anthropological and interpretative exploration of cultural practices of media audiences. Addresses theoretical and methodological implications of studying audiences from a culturalist perspective, with particular focus on media audience practices. Students engage in field research projects related to course content. Prerequisites: Restricted to Graduate Students only.

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JOUR-6711 (3) Mass Media and Pop Culture

Inquiry into relationship of the arts and the mass media, including study of critics, their function, and their works. Prerequisites: Restricted to Graduate Students only.

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JOUR-6721 (3) Message Effectiveness

Investigates how mass media messages work in terms of such effects as perception, learning and comprehension, and persuasion. Effectiveness is analyzed in terms of how well mass communication messages meet their objectives.

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JOUR-6771 (3) History of Mass Communication

Examines specialized areas in the history of mass communication. Prerequisites: Restricted to Graduate Students only.

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JOUR-6781 (3) Economic and Political Aspects of Mass Communication

Discusses economic problems and political issues relevant to newspapers, magazines, broadcasting, and CATV. Examines problems of telecommunications and the impact of future technology on mass communication.

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JOUR-6951 (1-6) Master's Thesis

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JOUR-7011 (3) Proseminar in Communication Theory 1

Introduces the principal concepts, literature, and theoretical and paradigmatic perspectives of media studies and mass communication and their ties and contributions to parallel domains in the social sciences and humanities. Prerequisites: Restricted to Communication (COMM or COMC) graduate students only.

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JOUR-7021 (3) Proseminar in Communication Theory 2

Continuation of JOUR 7011. Prereq., JOUR 7011.

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JOUR-7051 (3) Qualitative Research Methods in Mass Communication

Examines various methods of qualitative data gathering and analysis in the mass media context. Prerequisites: Restricted to Graduate Students only.

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JOUR-7061 (3) Quantitative Research Methods in Mass Communication

Examines various methods of quantitative data gathering methods and analysis in the mass media context.

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JOUR-7871 (3) Special Topics

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JOUR-8991 (1-10) Doctoral Thesis

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JOUR-4272 (3) Principles of Public Relations

Introduces the economics, ethics, history, impact, practice, and social context of the public relations industry in America. Includes an analysis of public relations in agencies, corporations, political campaigns, social service organizations, universities, and other venues. Emphasizes writing for public relations, including fact sheets, press releases, reports, and speeches. Same as JOUR 5272. Restricted to Journalism majors with a minimum of 57 hours taken. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

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JOUR-4282 (3) Public Relations Strategy and Campaigns

Develops and applies public relations programs, from identification of the problem through execution of public relations techniques. Prereq., JOUR 4272. Same as JOUR 5282. Prerequisites: Requires a prerequisite course of JOUR 4272.

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JOUR-4502 (3) Reporting 3

Involves writing news and features about actual events for publication under deadline pressure. Lab to be arranged. Prereqs., JOUR 3552 and 4002. Restricted to News Editorial majors and with a minimum of 85 hours taken. Same as JOUR 5502. Prerequisites: Requires pre-requisite courses of JOUR 3552 and 4002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 85 hours taken.

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JOUR-4562 (3) Digital Journalism

Builds upon digital production skills through the creation of multimedia project. Applies media theory to evaluate digital media content and explore how digital forms influence the news industry, politics, culture, and society. Prereq., JOUR 3002. Same as JOUR 5562. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4602 (3) Editorial, Commentary and Opinion Writing

Concentrates on several of the subjective areas of journalism. Emphasizes editorial and column writing, editorial pages and blogging. Prereq., JOUR 3001. Same as JOUR 5602. Prerequisites: Requires a prerequisite course of JOUR 3001.

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JOUR-4702 (3) Arts/Cultural Reporting and Criticism

Emphasizes composition of criticism for the performing arts and other areas of entertainment. Prereq., JOUR 3001. Same as JOUR 5702.

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JOUR-4802 (3) Magazine and Feature Writing

Provides practice in writing freelance articles. Considers types, sources, methods, titles, illustrations, and freelance markets. Students submit work for publication. Prereq., JOUR 3001. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5802. Prerequisites: Requires prerequisite course of JOUR 3001. Restricted to Journalism and Mass Communication (JOUR) majors with a minimum of 75 hours taken.

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JOUR-4822 (3) Reporting on the Environment

Involves reporting and writing about the environment by taking into account the scientific, technological, political, economic, and cultural dimensions of environmental subjects. Same as JOUR 5822.

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JOUR-4872 (1-3) Special Topics: Print

Same as JOUR 5872. Prerequisites: Restricted to News-Editorial (NSED-BSJR or JNED-BSJR) students with 87-180 credits (Senior, Fifth Year Senior).

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JOUR-5102 (3) Photojournalism Portfolio

Same as JOUR 4102.

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JOUR-5272 (3) Principles of Public Relations

Same as JOUR 4272.

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JOUR-5282 (3) Public Relations Strategy and Campaigns

Prereq., JOUR 5272 or instructor consent. Same as JOUR 4282. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

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JOUR-5502 (3) Newsgathering 2

Prereqs., JOUR 5511 and 5552. Restricted to majors. Same as JOUR 4502. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5552 and is restricted to JOUR graduate students only.

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JOUR-5512 (3) In-Depth Reporting

Shows how to dig beneath the surface of issues and events. Focuses on research, interviewing, and writing. Prereq., JOUR 5511.

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JOUR-5552 (3) News Editing

Discusses principles and practice in copy editing and writing headlines for local and wire stories. Practice in page makeup, picture editing, and electronic editing. Prereq., JOUR 3001. Restricted to majors.

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JOUR-5562 (3) Digital Journalism

Same as JOUR 4562. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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JOUR-5602 (3) Editorial, Commentary and Opinion Writing

Prereq., JOUR 5511. Same as JOUR 4602. Prerequisites: Requires a prerequisite course of JOUR 5511.

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JOUR-5702 (3) Arts/Cultural Reporting and Criticism

Prereq., JOUR 5511. Same as JOUR 4702. Prerequisites: Requires a prerequisite course of JOUR 5511.

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JOUR-5802 (3) Magazine and Feature Writing

Prereq., JOUR 5511. Same as JOUR 4802. Prerequisites: Requires a prerequisite course of JOUR 5511.

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JOUR-5812 (3) Science Writing

Helps students acquire the basic skills and knowledge required of science journalists. Also examines issues of scientific importance such as climate change, the nature of scientific knowledge, and how science is covered in various media. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

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JOUR-5822 (3) Reporting on the Environment

Same as JOUR 4822.

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JOUR-5872 (1-3) Special Topics: Print

Same as JOUR 4872. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-4403 (4) Advertising Campaigns

Gives students the opportunity to work in small groups to develop material for an actual client. Students examine basic principles of group dynamics and effective teamwork while conducting research, developing strategies and creating a multimedia campaign. All work is presented to the client. Prereq., JOUR 3463 or 3503. Prerequisites: Requires pre-requisite course of JOUR 3463 or 3503. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors with a minimum of 85 hours.

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JOUR-4453 (3) Advertising and Society

Examines criticisms and contributions of advertising in society and the economy. Same as JOUR 5453.

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JOUR-4503 (3) Advanced Creative Concepts

Builds on skills acquired in JOUR 3503 and 4513 to help students enhance their conceptual abilities and generate both print and integrated multimedia campaigns. Students work in teams to develop an extensive body of work that's exhibited in an awards show judged by advertising professionals. Prereqs., JOUR 3503 and 4513 and instructor consent.

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JOUR-4513 (3) Art Direction

Explores theories of visual communication, the visual imagination, and key principles of design. Develops students ability to express ideas through images and to create both effective visual concepts and layouts for a variety of media. Prereq., JOUR 3453 and instructor consent. Coreq. JOUR 3503.

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JOUR-4523 (3) Portfolio

Gives students an opportunity to develop an extensive body of work. Students create integrated campaigns, which include print, digital and guerilla ideas. Final portfolios are critiqued by both faculty and outside reviewers. JOUR 4503 and instructor consent.

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JOUR-4533 (3) Applied Consumer Insights

Provides an opportunity to use and master quantitative and qualitative research methods. Students conduct research and analyze data to determine the targets relationship with specific product categories and identify the emotional and practical needs that motivate purchase. Prereqs., JOUR 3403, 3453. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

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JOUR-4543 (3) Strategic Brand Management

Examines the theory of branding: what brands are, how brands are created and measured, as well as strategies for managing brands and brand communication. Prereq., JOUR 3463. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

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JOUR-4873 (1-3) Special Topics

Restricted to Journalism majors with a minimum of 75 hours taken. Prereqs., JOUR 3453, 3463, and 3473. Prerequisites: Restricted to Advertising (ADVT) majors with a minimum of 75 hours taken.

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JOUR-5453 (3) Advertising and Society

Same as JOUR 4453.

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JOUR-5873 (1-3) Special Topics: Advertising

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JOUR-4344 (3) Video Documentary Production

Designed to give students the experience of researching, writing, shooting and editing their own documentaries. Prereq., JOUR 3644. Same as JOUR 5344. Prerequisites: Requires a prerequisite course of JOUR 3644.

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JOUR-4354 (3) TV Reporting

Students learn basic broadcast reporting skills---where to find news and how to cover it, how to analyze and organize news stories. Skills are linked with advanced concepts of shooting and editing videotape in order to produce news stories on deadline. Prereqs., JOUR 3604 and 3644. Prerequisites: Requires pre-requisite courses of JOUR 3604 and 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) majors only.

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JOUR-4614 (1-3) Advanced Audio Practices

Applies advanced skills in producing in-depth audio programming for radio stations in Colorado and for weekly discussion-critique sessions. Prereq., JOUR 3614.

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JOUR-4624 (4) News Team

Students participate in Newsteam Boulder a program broadcast live over the Boulder cable television system. Prereq., JOUR 4354. Same as JOUR 5624. Prerequisites: Requires pre-requisite course of JOUR 4354. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Broadcast News (BCNS) majors only.

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JOUR-4634 (1-3) Broadcast Projects

Covers interpretation, preparation, and/or reporting in programs for broadcast media. Prepares radio or television documentaries and informational/entertainment programs. Prereqs., JOUR 3604 and 3644, or instructor consent.

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JOUR-4674 (1-3) Television Production 3

Provides in-depth experience in directing and producing television programs. Prereq., JOUR 3674. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 85 hours taken. Prerequisites: Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCEP-BSJR) majors only with a minimum of 85 hours taken.

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JOUR-4684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Requires a prerequisite course of JOUR 3644. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 75 hours taken.

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JOUR-4874 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

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JOUR-4875 (6) Special Topics: Boulder Digital Works

May be repeated up to 24 credit hours. Pass/fail only.

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JOUR-5344 (3) Video Documentary Production

Same as JOUR 4344.

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JOUR-5514 (3) Newsgathering for Television

Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5524 (3) Television Investigative Reporting

Covers how to produce quality, substantive, in-depth stories for television. Covers the basics of investigative reporting, research, and working with sources.

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JOUR-5624 (4) News Team

Prereqs., JOUR 5511 and 5514. Same as JOUR 4624. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5514.

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JOUR-5634 (1-3) Broadcast Projects

Prereq., instructor consent. Same as JOUR 4634. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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JOUR-5684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Restricted to Graduate Students only.

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JOUR-5874 (1-3) Special Topics: Electronic Media

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-6940 (1) Master's Degree Candidate

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JOUR-5321 (3) Media Institutions and Economics

Same as JOUR 4321.

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JOUR-5331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Same as JOUR 4331.

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JOUR-5511 (3) Newsgathering 1

Covers problems and practice in reporting news of government, politics, the courts, and industry, business, science, and other areas involving public issues. For graduate students only.

Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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JOUR-5521 (3) Precision Journalism

Instructs students in computer-assisted reporting, including a knowledge of commercial databases, global information networks, and the use of spreadsheets to analyze census data and other complex information. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5651 (3) Mass Communication Law

Studies state and federal laws and court decisions that affect mass communication in order to develop knowledge of mass media rights and responsibilities and an understanding of the legal system.

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JOUR-5711 (3) Media and Culture

Same as Jour 4711.

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JOUR-5791 (3) Media and the Public

Same as JOUR 4791.

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JOUR-5802 (3) Magazine and Feature Writing

Prereq., JOUR 5511. Same as JOUR 4802. Prerequisites: Requires a prerequisite course of JOUR 5511.

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JOUR-5812 (3) Science Writing

Helps students acquire the basic skills and knowledge required of science journalists. Also examines issues of scientific importance such as climate change, the nature of scientific knowledge, and how science is covered in various media. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

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JOUR-5822 (3) Reporting on the Environment

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JOUR-5841 (1-3) Graduate Independent Study

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JOUR-5851 (1-6) Graduate Professional Project

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JOUR-5861 (3) Visual Communication

Visual communication involves understanding both perception of messages and construction of them. Students analyze their visual thinking abilities and develop habits of visual analysis and criticism, as well as visual communication skills. Prerequisites: Restricted to Graduate Students only.

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JOUR-5871 (1-3) Special Topics

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5872 (1-3) Special Topics: Print

Same as JOUR 4872. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

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JOUR-5931 (1-3) Internship

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JOUR-6051 (3) Media Theory

Studies theories and perspectives of mass communication and explores the role of mass media in society. Prerequisites: Restricted to Journalism & Mass Communication (JOUR), Communication (COMM or COMC) or Telecommunications (TELE) graduate students only.

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JOUR-6061 (3) Mass Communication Research

Continuation of JOUR 6051, emphasizing experimental and survey research methods.

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JOUR-6071 (3) Critical Theories of Media and Culture

Introduction to critical theories and analysis of media and popular culture. Examines major theoretical traditions and/or theorists that significantly inform media studies (e.g., culturalism, structuralism, Marxism, critical theory, feminism, psychoanalysis, post-structuralism) and applies these to media analysis and criticism. Prerequisites: Restricted to Graduate Students only.

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JOUR-6201 (3) Global Media and Culture

Covers mass communication within the international system, including similarities and differences in functions, facilities, and content; social theories of the press; and the international flow of mass communication. Prerequisites: Restricted to Graduate Students only.

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JOUR-6211 (3) Communication and International Development

Studies and analyzes communications technologies and techniques used in addressing social problems in developing countries.

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JOUR-6301 (3) Communication, Media, and Concepts of the Public

Introduces students to historical and contemporary uses of fundamental concepts in research and theory about media institutions, particularly public, community, mass, publicity, public space, public opinion, public interest, and the public sphere.

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JOUR-6311 (3) Seminar: Freedom of Expression

Studies free-speech issues in the context of current and historical philosophical foundations for freedom of expression.

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JOUR-6321 (3) Literary Journalism

Analyzes the work of journalists who became some of the greatest fiction writers of the 19th and 20th centuries, and examines the increasingly indistinct lines between journalism and narrative fiction. Prerequisites: Restricted to Graduate Students only.

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JOUR-6331 (3) Political Communication

Explores the dynamic relationships involving media and politics, focusing primarily on the American political system. Readings and seminar discussion incorporate normative and empirical perspectives on the media-politics complex. Areas covered include media effects on public opinion and policy, uses of media in governance, journalism sociology, coverage of elections, and implications of interactive media for governance and civic participation. Prerequisites: Restricted to Graduate Students only.

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JOUR-6341 (3) Children and the Media

Examining the concepts of children and childhood from the historical, social, cultural, economic and political perspectives, this course explores the interaction between mass media and the socialization and cultivation process of children and youth. Many theoretical traditions are used as a framework to study a variety of issues, such as multicultural literature for children and Disney's role in storytelling, and tween movies and the tweens. Prerequisites: Restricted to Graduate Students only.

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JOUR-6551 (3) Telecommunication Policy

Surveys historical and contemporary developments in telecommunications policy, emphasizing social and cultural dimensions, and focusing primarily on the context of the United States.

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JOUR-6651 (3) Media Law

Graduate seminar in communications law. Studies changing law and applied legal research techniques. Prerequisites: Restricted to Graduate Students only.

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JOUR-6661 (3) Media Ethics and Responsibility

Develops a theoretical framework with which to recognize and analyze ethical issues as they arise in the media. Prerequisites: Restricted to Graduate Students only.

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JOUR-6671 (3) Media, Myth, and Ritual

Anthropological and interpretative exploration of cultural practices of media audiences. Addresses theoretical and methodological implications of studying audiences from a culturalist perspective, with particular focus on media audience practices. Students engage in field research projects related to course content. Prerequisites: Restricted to Graduate Students only.

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JOUR-6711 (3) Mass Media and Pop Culture

Inquiry into relationship of the arts and the mass media, including study of critics, their function, and their works. Prerequisites: Restricted to Graduate Students only.

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JOUR-6721 (3) Message Effectiveness

Investigates how mass media messages work in terms of such effects as perception, learning and comprehension, and persuasion. Effectiveness is analyzed in terms of how well mass communication messages meet their objectives.

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JOUR-6771 (3) History of Mass Communication

Examines specialized areas in the history of mass communication. Prerequisites: Restricted to Graduate Students only.

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JOUR-6781 (3) Economic and Political Aspects of Mass Communication

Discusses economic problems and political issues relevant to newspapers, magazines, broadcasting, and CATV. Examines problems of telecommunications and the impact of future technology on mass communication.

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JOUR-6951 (1-6) Master's Thesis

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JOUR-7011 (3) Proseminar in Communication Theory 1

Introduces the principal concepts, literature, and theoretical and paradigmatic perspectives of media studies and mass communication and their ties and contributions to parallel domains in the social sciences and humanities. Prerequisites: Restricted to Communication (COMM or COMC) graduate students only.

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JOUR-7021 (3) Proseminar in Communication Theory 2

Continuation of JOUR 7011. Prereq., JOUR 7011.

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JOUR-7051 (3) Qualitative Research Methods in Mass Communication

Examines various methods of qualitative data gathering and analysis in the mass media context. Prerequisites: Restricted to Graduate Students only.

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JOUR-7061 (3) Quantitative Research Methods in Mass Communication

Examines various methods of quantitative data gathering methods and analysis in the mass media context.

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JOUR-7871 (3) Special Topics

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JOUR-8991 (1-10) Doctoral Thesis

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Courses

Search by College, Department & Category

College/School

Category

Search by Course Number

Subject

Number

LAWS-6024 (3) Real Property Security

Examines basic mortgage law, including use of mortgage substitutes (e.g., deeds of trusts and installment land contracts). Covers foreclosure and redemption and related problems; special priority problems in land acquisitions and construction financing; special financing devices, including variable-interest and wraparound mortgages; and problems relating to the transfer of the mortgagor's and mortgagee's respective interests.

[Law School](#) [Law](#)

LAWS-6029 (4) Legal Aid Criminal Practice 1

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Practice:Clinical & Simulation](#)

LAWS-6031 (2) Consumer Protection Laws and Policies

Focuses on deceptive trade practices and consumer rights. Reviews the law of deception/misrepresentation at common law, and federal and state laws regarding unfair acts and practices. Covers credit practices, environmental and health claims, and telecommunications and privacy. Discusses remedies, including governmental enforcement actions, and individual and class actions.

[Law School](#) [Law](#)

LAWS-6035 (3) White Collar Crime

Examines distinctions between white collar crime and other types of criminal activity and the needs for and arguments against white collar laws and law enforcement. Studies securities fraud, mail and wire fraud, insider trading, money laundering, false statements, conspiracy and criminal forfeiture statutes. Includes use of the grand jury, privileges applicable in the corporate setting, immunity, discovery and the impact of parallel civil proceedings. Examines effect of government policy on corporations and their counsel, pre-trial and trial strategy, jury selection, and victim notification and restitution options. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6039 (4) Criminal Defense Clinic 2

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

Law School | Law | Practice: Clinical & Simulation

LAWS-6045 (3) Criminal Procedure

Focuses primarily on the constitutional limitations applicable to such police investigative techniques as arrest, search, seizure, electronic surveillance, interrogation, and lineup identification. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6049 (4) Legal Assistance 1: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

Law School | Law

LAWS-6055 (3) Post-Conviction Criminal Procedure

Addresses sentencing process and schemes, direct appeals, probation modification and revocation, parole revocation, pardon and commutation processes, post-conviction litigation and appeal in both state and federal court, federal review of state convictions through habeas and/or the AEDPA, and ethical issues that arise in post-conviction proceedings. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6059 (2-3) Legal Aid and Defender

Law School | Law

LAWS-6065 (3) Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of the law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this course: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-6069 (4) Immigration Clinic

Emphasizes practice skills in immigration cases. Includes litigation before Federal Immigration judges, Board of Immigration Appeals, and Federal Circuit Court of Appeals. Prereq. or coreq., LAWS 6353.

Law School | Law

LAWS-6079 (4) Criminal Defense Clinic

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants. Develops working knowledge of courtroom skills, advocacy, and evidence presentation. Concludes with full mock trial. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-6089 (4) Legal Assistance 2: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

Law School | Law

LAWS-6099 (4) Family Law Clinic

Represents low-income clients in family law cases in local state district court. Students will gain court-based experience in dissolution's and allocations of parental responsibilities. Seminar component includes instruction on substantive family law, related ethical issues, and theoretical backgrounds of poverty lawyering.

Law School | Law

LAWS-6103 (2-3) Legal Ethics Professionalism

Examines the legal profession as an institution, its history and traditions, and the ethics of the bar with particular emphasis on the professional responsibilities of the lawyer. Discusses the Model Rules of Professional Conduct. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; and construction problems in estate distribution. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Property

LAWS-6105 (2) Defending Immigrants in Criminal and Immigration Courts

Addresses legal procedures, pleadings and client advocacy matters involved in the representation of Spanish-speaking clients who have been arrested for criminal offenses and who have been issued a detainer by Immigration and Customs Enforcement for possible immigration removal proceedings. Provides overview of criminal defense concepts, and how criminal defense attorneys must be prepared to competently counsel their clients who are facing removal proceedings in the federal immigration system. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-6108 (3) Conflict of Laws

Addresses the conflicts that arise when the significant facts of a case are connected with more than one jurisdiction, whether that jurisdiction belongs to a state, the federal government, or a foreign government. The subject is studied in its theoretical and historical context, with special emphasis on the international aspects of extraterritorial jurisdiction.

Law School | Law | Jurisprudence and Perspective

LAWS-6109 (2) Trial Advocacy

Focuses on voir dire, opening statement, direct examination of witnesses, and cross examination. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-6112 (3) Foundations of American Natural Resources Law

Introduces students to the law of natural resources. Examines the legal, historical, political, and intellectual influences that shape resources development and conservation. Same as ENVS 6112. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6113 (2) Legal Ethics and Professionalism: Ethics and the Law of Lawyering

Continuation of LAWS 5103. Focuses on the Model Rules of Professional Conduct. Provides the nuts and bolts of the ethical rules needed to begin to explore externships, clinics, pro bono projects and other practice experiences during law school. Prereq., LAWS 5103. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6114 (2) Construction Law

Focuses on the basic principles and practices of construction law. Provides an overview of construction industry participants and players (engineers, contractors, insurers, etc.) and discusses and analyzes the various obligations and liabilities of these parties. Covers construction and design contracting, construction claims, professional negligence, construction insurance and suretyship, and ADR in construction. Provides transactional-practice oriented exercises.

Law School | Law | Property

LAWS-6117 (3) Survey of Business Enterprise Tax

Makes a comparative survey of federal income taxation of C corporations, S corporations, and partnership/limited liability companies, the principal entity choices for conducting business in the United States. Includes formation, operations, distributions, sales of interests, and liquidation. Suitable for students seeking introductory background for business or real estate practice, without the detail required for a tax specialist. Prereq., LAWS 6007.

Law School | Law

LAWS-6119 (1) Deposition Skills

Provides valuable skills to assume active roles in the deposition process. Explores why and when to take depositions; drafting and objecting to deposition notices for individual deponents, non-party witnesses, and corporate designees; drafting successful outlines, proper questions and objections; using exhibits; furthering case theory, making and using stipulations; using depositions in pretrial motions and at trial. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-6122 (2) International Natural Resources Law and Policy

Examines the suite of policy issues and legal ramifications associated with sustainable natural resource development. Examines most recent research on the "resource curse" theory. Examines recent policy developments and discussions that have occurred among industry, NGOs, multilateral development agencies and governments. Examines issues related to bribery and corruption in developing country environments, and dispute resolution mechanisms at national and local levels. Prerequisites: Restricted to Law students only.

Law School | Law

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LAWS-6128 (1-3) Legal Interpretation and the Legislative Process

Examines theories of legislation and the relation between legislatures and courts, emphasizing problems of statutory interpretation and other issues in the judicial use or misuse of statutes.

Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Government and Public](#)

LAWS-6138 (2-3) Federal Tax Politics

Studies the tax system as the nexus of politics and economics. Examines how various interests and entities use the many tools of political power to shape the tax system. Intended for those interested in politics and legislation, rather than for the tax specialist.

[Law School](#) [Law](#) [Taxation](#)

LAWS-6157 (3) Corporate Taxation

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

LAWS-6167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., LAWS 6007.

Law School Law Taxation

LAWS-6179 (2) Trial Practice

Students apply the rules and doctrine of evidence in simulated trial settings. Must be taken with the corresponding section of Evidence. Enrollment is to 24. Satisfies the trial practice requirement and counts 2 hours toward the 14 credit hour maximum of clinical hours counted toward graduation. Graded course; not pass/fail.

Law School Law

LAWS-6201 (3-4) Agency, Partnership, and the LLC

Surveys agency law whose principles are important in many other areas of law. Studies the legal organizations commonly used by small businesses: partnerships and limited liability companies (LLCs). Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6205 (3) Lawyers for Social Change

Helps students expand their perspective to understand the ways in which lawyers more broadly participate in social change work in this service learning class. Analyzes case histories of cause lawyering. The service learning component is based on the precept that one of the most effective ways to learn a role is to perform that role. Students will participate as social change lawyers by working with a local community to help it develop projects that the community believes will help it better itself. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-6206 (3) Litigation Drafting

Examines the intersection of civil procedure and legal writing. Emphasizes the drafting of persuasive adversarial litigation documents, including complaints, answers, motions in limine, motions to dismiss, motions of summary judgment, and jury instructions. Intensive writing and workshop format.

Law School Law Research and Writing

LAWS-6210 (2-3) Comparative Law

Considers foreign solutions to certain key legal problems. Focuses on general problems of legal process, rather than on substantive rules. Topics include the role of lawyers, civil dispute resolution, criminal procedure, and employment discrimination. Covers different legal systems in different years.

Law School Law International

LAWS-6211 (3) Corporations

Covers formation of corporations and their management; relations among shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6213 (2) Advanced Appellate Advocacy

Advanced study and practice of written and oral appellate advocacy. Builds on the foundation established in the required first-year course in appellate advocacy, but provides more extensive coverage, practice, and evaluation. Personalized instruction in brief writing, including detailed, one-on-one critique of their work. Include advanced techniques for organizing and writing a brief, and advanced instruction on the strategy and process of oral argument. Required to research, write, and rewrite an appellate brief, and conduct several oral arguments. Attend oral arguments of the United States Court of Appeals for the Tenth Circuit and the Colorado Court of Appeals. Prereq., LAWS 7106. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6220 (3) Introduction to Jewish/Israeli Law

Outlines the history and basic principles of Jewish Law, Halakhic system that encompasses Biblical law and the Rabbinic law. Covers Legal Sources of the Jewish laws, interpretation, legislation, custom, precedence and legal reasoning. Explores the study of modern legal system of the state of Israel and examines the problematic nature of the incorporation of the Law of personal status in the Rabbinical and in general courts. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6221 (3) Principles of Auditing, Compliance, and Risk Management

Introduces the fundamental legal and business rules and processes involved in performing audit, compliance, and risk management. Investigates understanding and measuring risk, establishing standards for aggregating disparate information, gathering market data, calculating risk measures, and creating timely reporting tools for managing risk. Covers important regulations including Sarbanes-Oxley, HIPAA, and FISMA. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-6226 (2-3) Advanced Legal Research and Writing

Focuses on improvement of legal writing skills including organizing, drafting, and revising legal writing. Improves research and analysis skills. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6236 (2) Judicial Opinion Writing

Places contemporary American judicial opinion in historical and comparative context. Analyzes individual and institutional writing choices that authors of judicial opinions must make and ethical dilemmas they must confront. Builds upon the first-year legal-writing curriculum. Challenges students to develop and defend their own opinion-writing approaches and styles as well as to write from approaches and in styles that are not their own.

Law School Law Research and Writing

LAWS-6246 (2) Introduction to United States Legal System/Legal Reasoning, Research and Writing

Introduces students without a law degree to the basic structure and content of the United States legal system, examining how the three branches of government at the state and federal levels make law and policy in the United States. The course will provide a basic introductory overview of the following: the various sources of law, including an understanding of how statutes are enacted by legislative institutions; the role of the United States court system in interpreting laws; application of judicial precedent in common-law systems; trial and appellate court procedures; and judicial review standards. The course will also introduce students to the methodology of American law, including legal reasoning, research, and writing, through a variety of in-class and outside research and writing assignments.

Law School Law

LAWS-6251 (4) Corporations

Covers formation of corporations and their management; relations between shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations.

Law School Law

LAWS-6281 (3) Accounting Issues for Lawyers

Studies accounting and auditing problems in the form they are placed before the lawyer, including a succinct study of basic bookkeeping, in-depth legal analysis of the major current problems of financial accounting, and consideration of the conduct of the financial affairs of business.

Law School Law Business

LAWS-6301 (3) Introduction to Intellectual Property

Provides an overview of our nation's intellectual property laws, including patents, copyrights, trademarks, and trade secrets. Discusses other matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as TLEN 5245. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-6302 (3) Water Resources

Analyzes regional and national water problems, including the legal methods by which surface and ground water supplies are allocated, managed, and protected. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-6308 (2) Law and Neuroscience

Covers neuroscience basics, and explores the relationship between the law and recent neuroscientific discoveries in domains including pain, memory, lie detection, psychopathy and criminal responsibility.

Law School | Law | Jurisprudence and Perspective

LAWS-6311 (1) National Security and Privacy Law

Introduces national security and privacy law and relevant law, regulations, rules, policies, and guidelines.

Law School | Law

LAWS-6318 (3) Economic Analysis of Law

Introduces the basic elements of economic theory and emphasizes demand and utility, cost, and optimality. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6321 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Same as TLEN 5255. Prerequisites: Restricted to Law students only.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-6328 (3) Financial Decision-Making

Applies concepts, ideas, insights, and principles of modern finance to real-world situations that lawyers will face in many areas of law. Analyzes present discounted value (time value of money), risk versus return, asset diversification, portfolio theory, efficient markets hypothesis, arbitrage, financial options, real options, financial signals, human capital, behavioral finance, socially responsible investing, neurofinance, happiness finance, and financial bubbles and crashes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective



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LAWS-6331 (1) The Technology of Privacy

Explores the escalating debates by policymakers, scholars, advocates, and industry representatives about the growing spread of tracking and surveillance in society. Debates are being spurred by the pace of changes to technology and particularly of changes to Internet and mobile technology. Practitioners in information privacy law or technology policy must understand the past, present, and likely future of the technology of privacy. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Intell Prop, Tech, and Telecom](#)

LAWS-6338 (1) Understanding the Global Financial Crisis

Explores the causes and consequences of the global financial crisis. Analyzes financial instruments and institutions at the heart of the crisis -- including asset-backed securities, credit derivatives, government-sponsored entities, credit rating agencies, hedge funds, and financial conglomerates -- and places them in the context of a larger "shadow banking system". Examines the building blocks of financial reform.

[Law School](#) | [Law](#) | [Jurisprudence and Perspective](#)

LAWS-6353 (3) Evidence

Studies the methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Litigation and Procedure](#)

LAWS-6363 (5) Evidence and Trial Practice

Studies methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Applies rules and doctrine of evidence in simulated trial settings. Combined Evidence and Trial Practice course. Satisfies the trial practice requirement and counts two hours toward the 14 credit hour maximum in clinical hours.

Law School Law

LAWS-6373 (3) Federal Litigation: Everything but the Trial

Litigates through all pretrial phases as plaintiff's counsel, a mock federal case: an employee's challenge to compensation and termination, with possible claims including breach of contract, breach of the implied covenant of good faith and fair dealing, violation of wage payment statutory and regulatory requirements, and fraudulent inducement to contract. Prereq., LAWS 6353. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6400 (3) International Law

Examines the nature, structure, and sources of international law, the relationship between international law and domestic U.S. law, the role of international organizations such as the United Nations, the methods of resolving international disputes, the bases of international jurisdiction, and select substantive areas of international law that may change from semester to semester. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6415 (2-3) Drug Product Liability Litigation: Principles and Practice

Explores product liability lawsuits and litigation. Explores law of product liability and the tools necessary to successfully litigate these cases. Considers the theory and practice of lawsuits now and after the Supreme Courts landmark decision in Wyeth v. Levine (2009). Focuses on similarities and differences between the special context of FDA regulation. Considers the legal principles governing such lawsuits such as inadequate warning, the Learned intermediary Doctrine and medical causation.

Law School Law

LAWS-6420 (1) Law and the Holocaust

Explores comparative law, jurisprudence, conflicts of laws and international law. Examines the Nazi philosophy of law emanating from its egregious racial ideology, and how it was used to pervert Germany's legal system to discriminate against, ostracize, dehumanize, and eliminate certain classes of people. Studies the role of international law in rectifying the damage by bringing perpetrators to justice and constructing a legal system designed to prevent a repetition.

Law School Law International

LAWS-6458 (2) Creative Writing for Lawyers

Requires substantial writing and reading. Begins with participants bringing to class a piece of creative writing consisting of three to five thousand words. Each session consists of one hour of discussion and critique of an assigned writing exercise that everyone has prepared for the class, and one hour of workshop critique of each participant's longer work, in turn.

Law School Law Research and Writing

LAWS-6501 (2-3) The Practice of Labor and Employment Law

Focuses on aspects of the practice of employment law, rather than the examination of legal doctrines. Discusses typical issues presented in advising and litigating on behalf of employers and employees. Topics include special attention to ethical issues.

Law School Law

LAWS-6502 (2) Wildlife and the Law

Examines the law that protects wildlife, its habitat, and biodiversity. Explores human-caused threats including habitat destruction, illegal trade, and climate change. Focuses on statutes, case law, environmental ethics, and current controversies to highlight legal, scientific, and political strategies for protecting biodiversity. Particular emphasis is placed on the U.S. Endangered Species Act.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-6503 (3) Law and Social Sciences

Explores disparities in criminal sentencing and death penalty cases; quality and effectiveness of legal representation for indigent criminal defendants; relationship between modifications in traditional steps in legal process; connection between alternative tort doctrines and volume of litigation, trial rates, plaintiff success rates and award size; impact of congressional statutes and US Supreme Court decisions on handling and outcomes of habeas corpus petitions.

Law School Law Jurisprudence and Perspective

LAWS-6508 (1) The Philosophy of Law

Questions the nature of law, characteristics and considerations of a legal system, rights and from where they come; thinking like a lawyer, basic techniques of legal reasoning, difference between doctrinal and normative legal analysis. Explores law's frontier and what distinguishes law from morality or politics. Focuses on influential texts from the end of WWII to the end of the Cold War. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6510 (2-3) International Environmental Law

Examines international environmental law, including transboundary impacts and global issues. Addresses such issues as intergenerational equities, principles of compensation, and if international environmental norms should receive special environmental norm consideration. A course in public international law is not a prerequisite, but students who have not taken such a course will probably find it useful to do some additional background reading. Offered in alternate years.

Law School | Law | International

LAWS-6511 (3) Labor Law

Includes the subjects of evolution of labor relations laws; how a collective bargaining relationship is established; negotiation of the collective bargaining agreement; labor and the antitrust laws; and rights of the individual worker. Course materials frame the issue of how a developed or postindustrial democracy deals with the problems that arise out of the employment relationship: of the choices between laissez-faire, substantive regulation, and the private ordering of the employment relationship through the collective bargaining process.

Law School | Law | Business

LAWS-6513 (2) Crime Victims Rights and Victim Counseling and Advocacy

Involves highly experiential and participatory form of learning related to the rights and needs of victims of crime. Legal and constitutional aspects of crime victims' rights and advocacy are considered. Includes a training component by Moving to End Sexual Assault, a Boulder based organization. After training by MESA, students will complete 120 hours of volunteer service on the MESA hotline as well as attend various meetings. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-6518 (3) Introduction to Islamic Law

Examines the Formative Era of Islamic Law, through its sources and methodologies. Examines the Established Era of the Schools of Law including differences between Sunni and Shiite Islamic Law. Examines human rights, terrorism, political Islam, women's rights and rights of religious minorities, criminal law, and finance law, and the growing role of fundamentalism in these areas. Examines the relevance of Islam and Islamic law in today's world.

Law School | Law | International

LAWS-6521 (3) Employment Law

Entails a survey of employment-at-will, workplace safety, workplace torts; ERISA and retirement, workers' compensation; controls on hours and wages; health insurance; disability and unemployment compensation.

Law School | Law | Business

LAWS-6528 (3) Capital Punishment in America

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty.

Law School | Law | Jurisprudence and Perspective

LAWS-6531 (3) Comparative Employment Law

In today's globalized world, lawyers are increasingly likely to encounter issues involving foreign employment. The course will provide substantive knowledge about foreign employment law and its relation to American law, as well as a comparative framework to assess the relative merits of the American approach to employment law.

Law School | Law | International

LAWS-6541 (2) Colorado Worker's Compensation Theory and Practice

Introduces the legal theories that underlie the no-fault compensation system, its historical evolution, policy conundrums, and ethical quandaries. Teaches the application of the procedural rules most frequently utilized in administrative setting. Studies the Workers' Compensation Act, the Workers' Compensation Rules of Procedure, and the Office of Administrative Courts Rules of Procedure. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-6551 (3) Employee Benefits and Compensation Law

Examines past and present employee benefits and compensation practices among private and public employers. Covers ERISA and defined benefit, defined contribution, and welfare benefit plans; equity awards granted by corporations; equity awards granted by LLCs and partnerships; nonqualified deferred compensation and Section 409A of the IRS; golden parachutes and Sections 280G and 4999 of the IRC. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-6601 (3) Corporate Transactions in Latin America

Introduces students to an overview of Latin American commercial and civil law systems, looking closely at Napoleonic and Chilean law. Explores the choice legal structures available for Latin American corporations; contract law that regulates business transactions in Latin America; and exploration of the way in which Latin American countries have joined international business trade agreements that pertain to Latin American nations such as the Vienna Convention and Gatt.

Law School | Law

LAWS-6602 (3) Cultural Property Law

Concerns domestic and International regulation of property that expresses group identity and experience. Organized around traditional categories of property (real, personal, and intellectual), the course covers historic preservation, archeological resources, art and museum law, with attention to indigenous people's advocacy on burial sites, traditional lands, ceremonies, music, symbols, ethnobotany, genetic information, and language. May satisfy upper-level writing requirement. Prerequisites: Restricted to Law students only.

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LAWS-6708 (1-3) Special Topics

Explores special topics in law. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

LAWS-6712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007, decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress.

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LAWS-6722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail competition. Prerequisites: Restricted to Law students only.

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LAWS-6732 (3) Renewable Energy Project Finance and Development

Examines renewable energy and how legal topics impact financing projects. Reviews structure, regulation, and functioning of electric energy industry and laws applicable to development, ownership and operation of renewable energy projects across technologies. Addresses legal policy, economic and financing issues associated with expansion and improvement of the transmission grid to support renewable energy development. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6803 (3) Quantitative Methods

Equips students to deal effectively with experts, whether as consultants or as adverse witnesses, and to enable the identification of a quantitative issue. Helps students to become multi-dimensional in quantitative literacy. Enables students to be comfortable reading statistical arguments, performing basic analyses, writing about statistics, expressing quantitative ideas in graphs, questioning an expert, and understanding the power of computer programming.

Law School | Law | Litigation and Procedure

LAWS-6856 (2) Advanced Legal Research

Offers an in-depth look at research resources and methods. Includes sources from the judicial, legislative, and executive branches of federal and state government; research in topical areas such as environmental law, taxation, and international law; and extensive coverage of secondary and nonlaw resources. Covers both print and electronic sources. Students will have several assignments and a final project.

Law School | Law | Research and Writing

LAWS-6866 (1) Colorado Legal Research

Surveys resources and methods to effectively research Colorado law. Covers primary and secondary resources including Colorado statutes, cases and digests, regulations, and constitution and practice materials. Covers how to research Colorado municipal law and other Colorado topics. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6876 (2) Legal Research Skills for Practice

Approaches legal research from a practice-focused perspective using hands-on sessions in the library. Instructs: how to find and use resources specific to a particular practice area; how to evaluate and weigh strengths and weaknesses of the various legal resources available; and, how to use legal resources efficiently. Includes research strategies and methods, primary and secondary resources, and research using library catalogs and Westlaw, Lexis, and other vendors. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6886 (3) Advanced Legal Research and Analysis

Develops students' ability to think critically about and solve current legal problems. Evaluates the benefits and detriments of both print and on-line legal resources, and how to create an efficient research plan. Formulates and applies research strategies to real-world legal problems, and uses legal analysis to refine and improve research results. Note: students who have taken LAWS 6856 Advanced Legal Research course may not enroll in this course. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6896 (3) Advanced Legal Research and Writing for Practice

Advances and improves legal research and writing skills learned in first year. Proposes variety of assignment types across substantive and procedural areas to prepare for experiences as summer associates or new attorneys. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-7003 (3) Federal Courts

Looks at structure and jurisdiction of the federal courts, emphasizing problems of federalism and separation of powers and their relationship to resolution of substantive disputes.

Law School | Law | Litigation and Procedure

LAWS-7005 (3) Media Law

Surveys common, statutory, and regulatory law as applied to the mass media. Focuses on the law as it affects the gathering and publishing of news. Also examines the regulation of the electronic media.

Law School | Law

LAWS-7011 (3) Creditors' Remedies and Debtors' Protection

Examines typical state rights and procedures for the enforcement of claims and federal and state law limitations providing protection to debtors in the process. Includes prejudgment remedies, statutory and equitable remedies, fraudulent conveyance principles, and exemptions and other judicial protections afforded debtors. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7013 (2) Supreme Court Decision Making

Students deliberate over several important cases as "Justices" of the Supreme Court. Class is divided into three "Courts" with the first hour spent in deliberation and the second hour in discussion of the deliberative process as well as the substantive issues.

Law School | Law | Litigation and Procedure

LAWS-7015 (3) First Amendment

Examines speech and religion clauses of the First Amendment. Includes the philosophical foundation of free expression, analytical problems in First Amendment jurisprudence, and the relationships between free exercise of religion and the separation of church and state. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7019 (1-2) Advanced Clinical Practicum

Enables a clinical student an optional 1-2 credit course to complete an ongoing clinic project that does not reach its natural conclusion during the regular term of the clinic. The practicum may be used in connection with any existing clinical course, but only with permission, and under the supervision of the clinical faculty member. A clinical student must complete a minimum of 50 hours of work per credit taken. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7021 (3-4) Bankruptcy

Briefly examines nonbankruptcy business rehabilitation devices, followed by basic principles of federal bankruptcy law and the bankruptcy court system. Concludes with attention to business reorganizations under Chapter 11 of the Bankruptcy Code. Recommended prereq., LAWS 6001 and 7011.

Law School | Law | Business

LAWS-7023 (2) Jury Selection and History

Studies the history of the jury from ancient times through the implications of Apprendi, the grand jury from the time of Henry II through modern federal practice, and current jury selection procedures, both federal and Colorado, both civil and criminal. Experienced trial attorneys will work with students to demonstrate jury selection.

Law School | Law | Litigation and Procedure

LAWS-7024 (2-3) Real Estate Planning

Considers various contemporary legal problems involved in the ownership, use, development, and operation of real estate. Emphasizes the income tax and financing aspects of commercial and residential use and development such as shopping plazas and apartment buildings. Same as ACCT 6730.

Law School | Law | Property

LAWS-7025 (3) Civil Rights Legislation

Presents a comprehensive study of federal civil rights statutes briefly reviewed in other courses (e.g., Constitutional Law or Federal Courts). Studies federal civil rights statutes, their judicial application, and their interrelationships as a discretely significant body of law of increasing theoretical interest and practical importance.

Law School | Law | Government and Public

LAWS-7029 (3) Appellate Advocacy Clinic

Provides a clinical course that enables students to work on briefs of criminal cases being handled by the Appellate Division of the Public Defender or Attorney General's Office. Instruction in oral advocacy is given. Enrollment limited to eight students.

Law School | Law | Practice: Clinical & Simulation

LAWS-7031 (3) Regulation of Financial Institutions

Focuses on the core banking law and works outward to cover a broader spectrum of bank-like financial institutions. Covers bank licensing, restrictions on bank business, regulating safety and soundness of banks, consumer protection of depositors and other bank customers, and regulatory examination and enforcement. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7045 (3) Criminal Procedure: Adjudicative Process

Focuses primarily on criminal procedure at and after trial. Looks at bail, prosecutorial discretion, discovery, plea bargaining, speedy trial, jury trial, the right to counsel at trial, double jeopardy, appeal, and federal habeas corpus.

Law School | Law | Litigation and Procedure

LAWS-7055 (3) Education Law

Considers issues raised by the interaction of law and education. Issues may include the legitimacy of compulsory schooling, alternatives to public schools, socialization and discipline in the schools, and questions of equal educational opportunities.

Law School | Law | Government and Public

LAWS-7061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps, and warranties, capitalized terms, definitions, indemnifications and escrow). Prerequisites: Restricted to Law students only.

Law School | Law | Business

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LAWS-7065 (3-4) Immigration and Citizenship Law

Covers legal issues pertaining to noncitizens of the United States, especially their right to enter and remain as immigrants and nonimmigrants. Topics include admission and exclusion, deportation, and refugees and political asylum. Approaches topics from various perspectives, including constitutional law, statutory interpretation, planning, ethics, history, and policy. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[International](#)

LAWS-7079 (2) Wrongful Convictions

Focuses on the issues and remedies in cases of people who have been convicted, whose traditional appellate remedies have been exhausted, and who continue to claim actual innocence. Preference given to those who have taken or are taking more criminal procedure courses.

[Law School](#)
[Law](#)

LAWS-7085 (2) Law and Religion

Uses judicial decisions as well as historical and theoretical materials to explore significant aspects of the relationship between law and religion. The religion clauses of the First Amendment are a central but not exclusive subject of study. Offered in alternate years.

[Law School](#)
[Law](#)
[Jurisprudence and Perspective](#)

LAWS-7095 (2) Women in Law

Explores the role of women in the legal system by looking at women as parties, jurors, witnesses, lawyers, law professors, and judges. Explores the relationship of law and society to women as victims and offenders. Investigates law and society's response to adoption, lesbian/gay issues, rape, surrogate and bad mothers, and sexual harassment.

Law School Law

LAWS-7100 (2-3) International Criminal Law: Theory and Practice

Exposes students to the rapidly growing body of jurisprudence, both international and national, wherein international humanitarian and human rights law are being applied for the purposes of prosecution, trial and punishment of individuals alleged to be responsible for the commission of war crimes, crimes against humanity, genocide and, more recently, terrorism. Prereq., LAWS 6400.

Law School Law International

LAWS-7101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions.

Law School Law Business

LAWS-7102 (2-3) Oil and Gas

Deals with the legal problems associated with private arrangements for the ownership and development of oil and gas: deeds and leases to oil and gas rights, trespass, adverse possession, implied covenants in leases, conveyances of fractional interests, and the interaction of private rights and conservation regulation. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7105 (3) Family Law

Focuses on nature of marriage, actions for annulment and divorce, problems of alimony and property division, separation agreements, and custody of children. Also considers illegitimacy, abortion, contraception, the status of married women in common law and under modern statutes, and relations of parent and child. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-7106 (1-2) Moot Court Competition

Offers an intensive involvement in legal research, appellate brief writing, and oral arguments in a competitive context. Student finalists may continue involvement in regional and national competitions. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7111 (3) Contract Theory: Collisions of Contracting and Culture

Explores various contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, critical legal studies, law and society, relational theory, and others. Considers and critiques these theories as applied to particular contracting cultures, especially as applied to construction contracts.

Law School | Law | Business

LAWS-7115 (2) Juvenile Justice

Covers a wide array of issues dealing with the legal rights of the unborn, children, and juveniles. Covers the legal status of parent-child abuse, delinquency and crime, and emancipation. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-7116 (1) Barristers Council

Law School | Law

LAWS-7121 (3) Advanced Contracts: Commercial Transactions

Studies Article 2 and Article 2A of the Uniform Commercial Code, together with the Convention and the International Sale of Goods. Advanced contracts topics are explored in depth. Among other subjects, warranties, title, remedies, and risk of loss in the sale of lease of goods will be studied.

Law School | Law | Business

LAWS-7122 (2-3) Mining and Energy Law

Addresses major issues affecting the development of mineral resources through mining activity. Includes the regulation of the impacts of mining on the environment on both public and private land. Covers the Mining Law of 1872, the Federal Coal Leasing Amendments, and state regulation of the impacts of mining on the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7125 (2) Advanced Domestic Relations

Offers advanced study of several domestic relations subjects, including both theoretical and lawyering issues. Tentative subjects include discovery, client interviewing and deposition preparation, asset valuation, working with expert witnesses, children as clients, and alternative dispute resolution. Recommended prereq., LAWS 7105.

Law School | Law

LAWS-7128 (2-4) Jurisprudence

Addresses a number of fundamental questions, such as: What is law? What should it be? How is it created? Our readings consist of cutting-edge articles from leading modernist/postmodernist schools of thought including legal formalism, legal realism, interpretive theory, law and economics, feminist jurisprudence, critical legal studies, and law and literature. Same as LAWS 8128.

Law School | Law | Jurisprudence and Perspective

LAWS-7132 (3) Energy, Insecurity, Sustainable Law

Examines why national security deals not only with armed aggression and the ability to thwart military invasions or subversion, but also includes critical threats to vital national and international support systems such as the economy, energy, and the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7135 (3) Parent, Child, and State

Examines the legal rights of parents and children in a constitutional framework, as well as the state's authority to define and regulate the parent-child relationship. Addresses rights of parents and children to freedom of expression and religious exercise, termination of parental rights and adoption, paternity orientation, and culture in defining the family.

Law School | Law | Family, Gender, and Health

LAWS-7145 (3) Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the US as they affect children, families, and work. Enhances research and writing skills, including field and international research. Contributes to host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-7154 (3) Land Use Planning

Explores mechanisms for public control of private land uses, such as planning, zoning, and regulation of land development; including consideration of federal and state constitutional and statutory limitations on local governments. Offered in alternate years.

Law School | Law | Property

LAWS-7159 (2) Advanced Trial Advocacy

Offers an advanced course covering trial practice elements. Open only to students who have taken LAWS 6109. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7164 (2) Land Conservation Law

Focuses on private land conservation efforts in the United States, and particularly Colorado, and also considers public land conservation programs. Analyzes real property principles and instruments used to protect land, and the development and acceptance of conservation easements in gross as a mechanism for protection, financing mechanisms for land conservation, including direct government funding and indirect funding through tax incentives at the federal, state and local levels. Understanding of Real Property and Tax concepts helpful.

Law School | Law | Property

LAWS-7169 (2) Motions Advocacy

Provides practical training in preparing and arguing pretrial, post-trial, and chambers motions to an experienced federal judge based on materials from actual case files. Assigns some research papers. Limited to 15 third-year students with interest in trial advocacy and willingness to participate in confrontational exercises. Counts as practice hours. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7200 (3) Anthropology of Law

Reviews the relationship between the social and cultural features of both developed and developing country societies and the formal and informal legal institutions within them. Considers the nature of social control and constraint, judicial reasoning, fact finding, conciliation, mediation and arbitration, and legal discourse.

Law School | Law

LAWS-7201 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Same as TLEN 5270. Offered in alternate years.

Law School | Law | Business



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LAWS-7202 (3) Environmental Law

Examines and analyzes important federal pollution control statutes, including the National Environmental Policy Act, the Clean Air Act and Clean Water Act, Solid Waste Act, and Superfund. Considers related economic theory, ethics, and policy issues.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

LAWS-7205 (3) Administrative Law

Covers practices and procedures of administrative agencies and limitations thereon, including the Federal Administrative Procedure Act, and the relationship between courts and agencies.

[Law School](#) | [Law](#) | [Government and Public](#)

LAWS-7207 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Taxation](#)

LAWS-7209 (4) Natural Resources Law Clinic

Offers hands-on experience in the practice of natural resources law in the Rocky Mountain region to a select number of clinic students. The clinic's docket of active cases focuses on public land law and the environmental statutes protecting those lands and their resources. Students participate in projects that test the full range of lawyering skills, including traditional litigation, administrative

advocacy, legislative drafting, and the conduct of complex negotiations and settlements. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7211 (3) Business Planning

Focuses on the development and use of concepts derived from a number of legal areas in the context of business planning and counseling. Topics such as formation of business entities, sale of a business, recapitalization, division, reorganization, and dissolution are considered. Prereqs., LAWS 6007, 6201, and 6251 or 6211.

Law School Law Business

LAWS-7212 (2) Environmental Litigation

Examines the litigation strategies and procedures used to enforce and defend against enforcement under environmental protection statutes, such as the Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, and the Toxic Substances Control Act. Covers civil enforcement, and citizen's suits.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7217 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prerequisites: Requires pre-requisite course of LAWS 7207.

Law School Law Taxation

LAWS-7221 (2-3) Government Regulation of Business.

Covers themes that explore the nature of the regulatory state and the realities of how businesses react to regulation. Provides an understanding of regulatory institutions; the tools of governmental regulation; and a critical perspective on regulation.

Law School Law Business

LAWS-7222 (2-3) Environmental Decision-Making

Explores the foundational issues that underlie agency decision-making, including environmental ethics, cost-benefit analysis, risk assessment, constitutional law, and administrative law. Compares and contrasts National Environmental Policy Act and the National Historic Preservation Act and the Endangered Species Act.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7228 (2) Intellectual Origins of the Constitution

Examines the views of the Constitution's framers as expressed in contemporaneous and antecedent writings and debates. Offered in alternate years.

Law School Law

LAWS-7232 (3) Energy Justice

Establishes why nearly a third of the world populated by the energy oppressed poor, presents a major national and international "legislative" or socio political problem calling for answers from governments and civil societies in the developed and developing world. Explains and elucidates the concept of energy justice, its jurisprudential heritage, and its meaning and relevance in contemporary society. Case studies present problem solving frameworks spanning the political, social, behavioral, engineering, natural sciences, and law. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7241 (3) Telecommunications Law and Policy

Examines laws governing telecommunications industries, including federal and state regulation and international aspects. Includes telephone, cable, satellite, cellular, and other wireless systems, and the Internet. Same as TLEN 5240. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7248 (3) History of Criminal Justice

Explores the social, cultural, and legal history of Anglo-American criminal justice from the 17th to the 20th centuries. Also examines tensions between various methods that historians employ to study crime and law.

Law School Law

LAWS-7251 (3) Non-Profit Law

Examines the creation of a non-profit organization, in particular whether to choose a trust or a corporate form, how to qualify for federal tax exemption, and differences between private foundations and public charities. Examines fiduciary duty issues, restrictions on political activity and private benefit, and unrelated business income tax. Addresses tax incentives for charitable giving and state fundraising laws.

Law School Law

LAWS-7255 (3) Local Government

Studies state legislative and judicial control of the activities, powers, and duties of local governmental units, including home-rule cities and counties, and some problems of federal, state, and local constitutional and statutory limitations on governmental powers when exercised by local governmental units (e.g., the powers to regulate private activities, tax, spend, borrow money, and condemn private property for public uses). Offered in alternate years.

Law School | Law | Government and Public

LAWS-7261 (3) Corporate Finance

Examines a variety of important legal issues related to the funding and financing corporations including creditor protection laws, the Trust Indenture Act of 1939, fiduciary duties, bond indenture provisions, securities laws, and rights of equity holders. Covers efficient capitalization structures, corporated valuation techniques, capital markets and the efficient market theory, and cost of capital concept. Prereq., LAWS 6211 or 6251.

Law School | Law | Business

LAWS-7271 (3) Venture Capital and Private Equity

Provides overview of the legal and financial principles to represent privately held companies, their founders and managers, and their investors. Emphasizes transaction structuring rather than judicial opinions. Includes the organization and financing of start-ups, structuring buyout transactions, exit strategies, legal organization of investment funds and other financial intermediaries. Discusses the relevant regulatory landscape, including securities law, bankruptcy, ERISA, and tax law.

Law School | Law | Business

LAWS-7285 (2-3) Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers and provides an opportunity to grow as colleagues and teammates. Recommended prereq. LAWS 7055. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7300 (2-3) International Litigation

Examines the special issues that arise in litigation in U.S. courts when one or more of the parties is a foreign individual, corporation, or government, or when the subject of the litigation concerns events occurring wholly or partly outside of this country. Includes personal jurisdiction over foreign defendants, extraterritorial service of process and evidence gathering, choice of forum, foreign sovereign immunity, the act of state doctrine, extraterritorial application of U.S. law, and recognition of enforcement of foreign judgments.

Law School | Law

LAWS-7301 (2-3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as TLEN 5265.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7303 (3) Complex Civil Litigation

Covers civil procedure in modern complex multiparty suits, including class actions in such settings as employment discrimination and mass torts, and problems in discovery, joinder, res judicata, collateral estoppel, and judicial management in such suits. Offered in alternate years.

Law School Law Litigation and Procedure

LAWS-7307 (3) Taxation of Natural Resources

Considers the federal income tax aspects applicable to the exploration for, the development of, and the operation of natural resources, as well as the financing thereof. Also considers oil and gas, hard minerals, timber, and water. Offered in alternate years. Recommended prereq., LAWS 6007.

Law School Law

LAWS-7309 (2-4) American Indian Law Clinic

Offers a clinical education course involving participation in the representation and advocacy of Indian causes---land or water claims, Indian religious freedom, job or other discrimination based on race, and issues implicating tribal sovereignty. Recommended prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

Law School Law Practice:Clinical & Simulation

LAWS-7310 (3) International Dispute Settlement

Examines various mechanisms for the settlement of international disputes. Includes negotiation, inquiry, mediation, conciliation, arbitration, and adjudication. Focuses on intergovernmental dispute resolution.

Law School Law International

LAWS-7311 (2-3) Patent Law

Covers selected topics, such as patentable subject matter, patentability, and utilization of patent rights through licensing and infringement litigation. Covers practice and procedure of the patent and trademark office.

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LAWS-7320 (3) International Criminal Law

Surveys international human rights law and international crime and punishment. Addresses idea of rights from a historical, philosophical, conceptual and analytical perspective; explores the "Primary rules of conduct" as well as adjudication and remedies, and selected rights from a comparative perspective. Recommended prereq., LAWS 6400.

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LAWS-7321 (1-2) IP and Technology Contracting

Covers transactions, and often high-tech deals involving intellectual property rights. Studies IP ownership; assignment or rights; commercialization transactions (licensing, distribution, strategic); antitrust; and emerging issues. Gives students essential tools to draft and analyze technology contracts. Prereqs., LAWS 6301 or 7301.

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LAWS-7323 (2) Patent Litigation

Focuses on unique aspects of patent litigation: substantive patent law, civil procedure, federal jurisdiction, and litigation strategy; includes claim construction, infringement, anticipation and obviousness defenses, unenforceability challenges, declaratory judgments, injunctions, damages, settlements, licenses, and trial strategy. Of interest and useful to those interested in intellectual property generally, not just patents or in litigation.

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LAWS-7325 (3) Election Law

Examines the rapidly evolving field of election law: the right to vote, voting procedures, redistricting, candidate selection, campaign finance laws, and direct democracy. Emphasizes federal law, including applicable constitutional jurisprudence.

Law School | Law | Government and Public

LAWS-7331 (2) Sports Law

Covers the application of rules from agency, antitrust, contracts, constitutional law (including sex discrimination), labor law, property, torts, unincorporated associations, and other subjects to those persons involved in the production and delivery of athletic competition to consumers. Explores the development of the application of these rules to a sports setting and related economic issues. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-7333 (2) Advanced Evidence: Forensic Science and the Criminal Courts

Explores the admissibility of forensic science opinion and expert testimony, its use as evidence at a trial, and the challenges that such evidence may pose for the courts and the entire criminal justice system in the future.

Law School | Law | Litigation and Procedure

LAWS-7335 (1) The Law of Presidential Elections

Examines the laws and regulations that uniquely shape presidential selection, analyzing practical applications as well as the broader constitutional and policy considerations. A combination of federal, state, and local laws shapes how Americans select their president. But more than ever before, Americans are questioning the rules that influence presidential selection, such as the major party primary system, ballot access, presidential campaign financing, and the electoral college.

Law School | Law

LAWS-7341 (3) Trademark and Unfair Competition Law

Examines trademark protection, the interaction of trademark and unfair competition law with other intellectual property doctrines, the requirements for acquiring and retaining federal trademark rights, false advertising and other misrepresentations, the right of publicity and related claims, remedies for infringement, and international aspects of trademark protection.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-7345 (2) Comparative Criminal Procedure

Takes an in-depth look at some of the basic features of modern criminal justice systems that share the civil law tradition with the hope that such study will provide a vehicle for a deeper understanding of the strengths and weaknesses of the American system of criminal justice. Prereq., LAWS 6045.

Law School Law Litigation and Procedure

LAWS-7361 (2) Privacy, Security, and Digital Rights Management

Introduces students to the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7371 (3) Standardization and Standards Wars

Examines current issues in the standardization of telecommunications and information technologies. Covers the importance of standards, government and private sector perspectives, and the impact of information age technologies on standards of development. Emphasizes key national and international organizations.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7375 (3) U.S. Races and Justice Systems

Examines the unique but related legal, social, and economic problems and accomplishments of those persons in this country whose ancestry originated in Africa, Asia, Latin America, or North America, and explores the developing literature on whites and whiteness.

Law School Law

LAWS-7381 (3) Intellectual Property Counseling and Prosecution

Introduces strategic development and procurement of IP, including patents, trademarks, copyrights, and trade secrets. Evaluates the latest cases and legal trends from a practical and strategic perspective. Focuses on widely accepted best practices and critical thinking in these areas. Prerequisites: Restricted to Law students only.

Law School Law

LAWS-7401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes.

Law School Law Business

LAWS-7402 (2) The Law of Toxic and Hazardous Wastes

Examines the EPA's federal hazardous waste statutes, including the Resource Conservation and Recovery Act of 1976 (RCRA), and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Analyzes the RCRA "Cradle-to-grave" hazardous waste program, and addresses the evolving CERCLA liability scheme and cleanup process.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7405 (2-3) Health Law 2: Medical Malpractice and Quality Regulation

Explores (1) the law controlling ethical issues that arise during the delivery of medical care, (2) the substantive law of medical malpractice and tort reform aimed at reducing the frequency and severity of medical malpractice verdicts, and (3) the practical aspects of litigating a medical malpractice case. Cross-listed at the Health Sciences Center; will include field trips there.

Law School | Law | Family, Gender, and Health

LAWS-7406 (1) International Moot Court Competition

Open only to students who actively participate in the seminar preparing for the competition, in the preparation of memorials for the competition, and in the practice of oral arguments or regional oral arguments.

Law School | Law | Practice:Clinical & Simulation

LAWS-7409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Credit is not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course.

Law School | Law | Practice:Clinical & Simulation

LAWS-7411 (2-3) Mergers, Acquisitions, and Reorganizations

Studies the planning of corporate mergers, acquisitions, and reorganizations, examining the application and integration of state corporate law, federal securities law, accounting principles, tax law, labor law, products liability law, environmental law, ERISA, and antitrust law.

Law School | Law | Business

LAWS-7420 (2) European Union Law

Covers all the essential aspects of the EU law: EU institutions, competences, the making and the application of EU law, and the content of the fundamental principles of EU law and the common market.

Law School | Law

LAWS-7425 (2-3) Health Law

Acquaints students with the issues arising at the interface between law and medicine through analysis of cases and other materials. Critically analyzes methods used by courts and legislatures to address medical/legal problems in an effort to determine whether the legal resolution was reasonable and appropriate in light of medical, social, and political considerations. Offered in alternate years.

Law School | Law | Family, Gender, and Health

LAWS-7428 (3) Bioethics Law and Literature

Interdisciplinary study of law, medicine, and bioethics. Addresses such issues as confidentiality in medical treatment, rejecting life-sustaining treatment, death and dying, reproductive law and genetic technology, human experimentation, and access to health care.

Law School | Law

LAWS-7429 (2) Alternative Dispute Resolution

Examines a variety of dispute resolution processes, such as mediation, arbitration, minitrials, and court-annexed settlement procedures, as alternatives to traditional court adjudication. Credit not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7439 (2-3) Mediation

Explores mediation, one of the more important methods of alternative dispute resolution, and the legal issues that may arise related to mediation. Considers what kinds of persons and disputes are most appropriate for mediation. Includes role playing.

Law School | Law | Practice:Clinical & Simulation

LAWS-7440 (3) International Human Rights and Humanitarian Law

Surveys international human rights both in law and in philosophy, both current and historical.

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LAWS-7449 (2-4) Juvenile Law Clinic

Examines the world of child welfare from the view of the child client, by representing their best interests in abuse and neglect cases. As Guardians ad litem, students will represent children in abuse and neglect cases from the beginning, at the temporary shelter hearing, through the conclusion of the case at a permanency orders hearing. Prereq., LAWS 6353. May be repeated up to 8 total credit hours.

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LAWS-7451 (3) Law and Finance for Entrepreneurs

Studies unique legal problems faced by entrepreneurs, including formation issues (choice of entity, rights of the founders, initial investors), operation issues (governance, key employees, intellectual property, financing), IPOs, and buy-outs.

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LAWS-7458 (2) Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final eight page paper are required.

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LAWS-7475 (2) Advanced Torts

Studies selected tort actions and theories. Topics covered may include "Dignitary torts" (e.g., defamation, privacy, etc.), business torts, and product liability. Offered in alternate years.

Law School | Law | Government and Public

LAWS-7505 (2) Sexuality and the Law

Examines the regulation of sexuality in local, state, and federal law, with particular emphasis on sexual orientation. Explores how sexuality shapes, and is shaped by, an array of laws and policies, which may include family law, military regulations, tax law, employment law, trusts and estates, obscenity law, and criminal law.

Law School | Law | Family, Gender, and Health

LAWS-7507 (2-3) State and Local Taxation

Examines the operation of the income, property and sales tax used to finance our state and local governments. Includes requirements of equal protection and due process. Covers jurisdiction to tax allocation of the tax base among different state and local governments. Same as ACCT 6760.

Law School | Law

LAWS-7509 (1) Mock Trial Competition

Student teams further develop trial and advocacy skills in a competitive mock-trial format involving two or more rounds of trials. Requires preparation of trial briefs and drafting other court pleadings and documents. Credit is limited to the top two teams (six students). Student finalists may continue involvement in regional and national competitions. May be repeated within the term up to 4 total credit hours. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-7513 (3) Domestic Violence

Explores the law, policy, history, and theory of domestic violence. Examines the limits of legal methods and remedies for holding batterers accountable and keeping victims safe; the dynamics of abusive relationships; the history of the criminal justice system's response to domestic violence; the defenses available to battered persons who kill their abusers; the legal paradigm of the sympathetic victim; psychological and feminist theories about abusive relationships; civil rights and tort liability for batterers and third parties; and the intersection of domestic violence with international human rights.

Law School | Law | Family, Gender, and Health

LAWS-7515 (3) Poverty Law

Explores the legal and policy responses to poverty in the United States and addresses how the law shapes the lives of poor people and communities. Examines the extent of poverty in the United States, the root causes, and the historical development of social welfare policy. Focuses on the rights-based aspect of poverty law and various policies that attempt to ameliorate poverty.

Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-7523 (2) Juvenile Law

Takes a critical look at the juvenile justice system and how it responds to the needs of juveniles who are either delinquents and/or victims of abuse. Issues include the rights and responsibility of parents, parental responsibility programs, delinquents, and the future of our juvenile courts.

Law School Law

LAWS-7525 (3) Race and American Law

Examines the judiciary's approach to racial discrimination from America's colonial period to the present day. Concludes with an analysis of the contemporary status of racial subordination in the legal system and considers recent scholarly critiques of the law's limitations in effecting racial justice. Employs an interdisciplinary approach and covers the experiences of American Indians, African Americans, Asian Pacific Americans, and Chicana/os.

Law School Law Government and Public

LAWS-7529 (1) Appellate Advocacy Competition

Gives students the opportunity to participate in an intermural appellate advocacy competition, in which a brief must be filed and reviewed, critiqued, and deemed credit-worthy by a member of the faculty. (Law School Rule 3-2-9 (b) should be consulted prior to enrollment.)

Law School Law

LAWS-7541 (2-3) Employment Discrimination

Examines statutory and constitutional prohibitions of discrimination in employment on the basis of race, gender, age, religion, national origin, and disability.

Law School Law Business

LAWS-7601 (2-3) Business Transactions

Provides a practical understanding of how to apply the law in both transactional and litigation settings. Gives an interdisciplinary look at how various areas of the law are brought together in common factual settings. Teaches students to negotiate, document, and close the acquisition of a business covering the areas of practice of corporate, contracts, real property, secured transactions, and bankruptcy law. Tests, in a litigation setting, the decisions made during the acquisition stage.

Law School Law Business

LAWS-7605 (2) Refugee and Asylum Law

Focuses on protections offered under international and domestic law for persons who are threatened by persecution or other adverse conditions in their country of origin. Covers who is a refugee and the protections they have or do not have under United States and international law.

Law School Law International

LAWS-7609 (1-2) Law Practice Management

Studies the establishment of a solo or small-firm legal practice. Topics include the business structure (PC, LLC, etc.), office systems, marketing and development, staffing, liability insurance, managing time, technology, and billing. (This practice course counts toward the 14 credit hour maximum of practice hours.) Course supported by the Section of Law Practice Management of the ABA in memory of Harold A. Feder, CU Law '59.

Law School Law Practice:Clinical & Simulation

LAWS-7611 (2-3) International Business Transactions

Examines the sources of international business law, the relationship between such law and the U.S. legal system, the choice of law in international business disputes, the special issues that arise when doing business with foreign governments, the law governing international sales and the shipment of goods, and international intellectual property protection. Offered in alternate years.

Law School Law International

LAWS-7615 (4) Immigration Law and Immigrants' Rights

Addresses four broad questions: Who is a citizen of the United States? Who else can come to this country? When and why can noncitizens be forced to leave? Who has the authority to answer these questions? These questions prompt us to examine the history of U.S. immigration, the constitutional-statutory-regulatory framework that governs immigration and citizenship law, and the federal agencies that administer it. Also addresses contemporary challenges to, and assertions of, immigrants' rights. Same as PSCI 7181. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-7617 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation of income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Prereq., LAWS 6007 or 6157. Same as ACCT 6780.

Law School Law Taxation

LAWS-7619 (2) Entrepreneurial Law Clinic

Advise indigent clients who need legal services in the founding of their business or not-for-profit firms, registering LLCs, and drafting employment and intellectual property agreements. Prereq.,

two of the following courses: Agency Partnership and the LLC, Corporations, Securities, Seminar on Corporate Law, Law and Finance for Entrepreneurs, Accounting Issues for Lawyers, Patent Law, Trademark, and International Business Transactions. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7629 (1) Introduction to the In-House Practice of Law

Explores cutting edge questions around the practice of law as an employee of a business. Demonstrates how the combination of law and business can be valuable to businesses and also innovative, challenging and rewarding to legal professionals. Legal services to corporate America is changing dramatically with more entities relying on in-house counsel, compared to private practitioners, to obtain legal advice and counsel. Prerequisites: Restricted to Law students only.

Law School | Law | Practice:Clinical & Simulation

LAWS-7725 (3) American Indian Law I

Investigates the federal statutory, decisional, and constitutional law that bears upon American Indians, tribal governments, and Indian reservation transactions. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Prereq., LAWS 7725.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7745 (2-3) Jurisdiction in Indian Country

Examines the current state of the justice system within Indian nations today. Includes understanding the respective roles of tribal and state law enforcement authorities, as well as the Bureau of Indian Affairs' Office of Justice Services, the Federal Bureau of Investigation, and the Drug Enforcement Administration. Examines relationship between federal and tribal courts; substantive laws; and advocates who appear before them. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7751 (3) Arbitration

Discusses the nature of arbitration, tactical considerations in whether to use this form or another form of dispute resolution, the drafting of effective contracts to arbitrate the enforceability of these contracts, and the enforcement of arbitration awards. Covers the preclusive effect of arbitration proceedings, multiparty arbitration, and choice of law. Students conduct simulated arbitrations.

Law School | Law | Practice:Clinical & Simulation

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Courses

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Category

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LAWS-9209 (4) Natural Resources Law Clinic

Engages in litigation and advocacy aimed at protecting the natural resources of the Rocky Mountain region. Students will represent clients in matters involving public lands, wildlife, and other resources. The seminar component will focus on practical aspects of environmental litigation, including administrative practice and decision-making, client representation, citizen suits, and ethical issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9341 (3) Law and Economics of the Information Age

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Restricted to Law students only. Prereq., LAWS 7201, 7241 or 7301. Same as TLEN 5620. Prerequisites: Restricted to Law students only.

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LAWS-9401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Restricted to Law students only. Credit is not

given for LAWS 741 and this course. Prerequisites: Restricted to Law students only.

Law School | Law | Practice: Clinical & Simulation

LAWS-9410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | International

LAWS-9701 (2) Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Restricted to Law students only. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409 Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-9712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007 decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail completion. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Restricted to Law students only. Prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9846 (1-2) LLM Seminar

LLM students study academic legal writing in this 1-credit per semester yearlong course. Topics covered will include: the purpose of academic legal writing; how academic legal writing differs from other forms of legal writing; topic selection; legal research (methods and ethics); first drafts; editing; academic workshops; and publishing. In addition, guest speakers will talk to LLM students about career planning and job seeking. International LLM students will learn about the American legal system. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-9856 (1-4) LL.M Thesis

LL.M students are required to write a thesis in order to graduate. Requires significant work of original research on a topic chosen in close consultation with advisors and other law school faculty, and assignments include due dates for topic selection, drafts, and workshop delivery. Thesis is worth two credits. In exceptional circumstances and only after pre-approval, an LL.M student may enroll for a third or fourth credit. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing



LAWS-6103 (2-3) Legal Ethics Professionalism

Examines the legal profession as an institution, its history and traditions, and the ethics of the bar with particular emphasis on the professional responsibilities of the lawyer. Discusses the Model Rules of Professional Conduct. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

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LAWS-6108 (3) Conflict of Laws

Addresses the conflicts that arise when the significant facts of a case are connected with more than one jurisdiction, whether that jurisdiction belongs to a state, the federal government, or a foreign government. The subject is studied in its theoretical and historical context, with special emphasis on the international aspects of extraterritorial jurisdiction.

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LAWS-6113 (2) Legal Ethics and Professionalism: Ethics and the Law of Lawyering

Continuation of LAWS 5103. Focuses on the Model Rules of Professional Conduct. Provides the nuts and bolts of the ethical rules needed to begin to explore externships, clinics, pro bono projects and other practice experiences during law school. Prereq., LAWS 5103. Prerequisites: Restricted to Law students only.

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LAWS-6308 (2) Law and Neuroscience

Covers neuroscience basics, and explores the relationship between the law and recent neuroscientific discoveries in domains including pain, memory, lie detection, psychopathy and criminal responsibility.

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LAWS-6318 (3) Economic Analysis of Law

Introduces the basic elements of economic theory and emphasizes demand and utility, cost, and optimality. Prerequisites: Restricted to Law students only.

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LAWS-6328 (3) Financial Decision-Making

Applies concepts, ideas, insights, and principles of modern finance to real-world situations that lawyers will face in many areas of law. Analyzes present discounted value (time value of money), risk versus return, asset diversification, portfolio theory, efficient markets hypothesis, arbitrage, financial options, real options, financial signals, human capital, behavioral finance, socially responsible investing, neurofinance, happiness finance, and financial bubbles and crashes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6338 (1) Understanding the Global Financial Crisis

Explores the causes and consequences of the global financial crisis. Analyzes financial instruments and institutions at the heart of the crisis -- including asset-backed securities, credit derivatives, government-sponsored entities, credit rating agencies, hedge funds, and financial conglomerates -- and places them in the context of a larger "shadow banking system". Examines the building blocks of financial reform.

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LAWS-6503 (3) Law and Social Sciences

Explores disparities in criminal sentencing and death penalty cases; quality and effectiveness of legal representation for indigent criminal defendants; relationship between modifications in traditional steps in legal process; connection between alternative tort doctrines and volume of litigation, trial rates, plaintiff success rates and award size; impact of congressional statutes and US Supreme Court decisions on handling and outcomes of habeas corpus petitions.

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LAWS-6508 (1) The Philosophy of Law

Questions the nature of law, characteristics and considerations of a legal system, rights and from where they come; thinking like a lawyer, basic techniques of legal reasoning, difference between doctrinal and normative legal analysis. Explores law's frontier and what distinguishes law from morality or politics. Focuses on influential texts from the end of WWII to the end of the Cold War.

Prerequisites: Restricted to Law students only.

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LAWS-6528 (3) Capital Punishment in America

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty.

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LAWS-6708 (1-3) Special Topics

Explores special topics in law. Prerequisites: Restricted to Law students only.

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LAWS-7085 (2) Law and Religion

Uses judicial decisions as well as historical and theoretical materials to explore significant aspects of the relationship between law and religion. The religion clauses of the First Amendment are a central but not exclusive subject of study. Offered in alternate years.

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LAWS-7128 (2-4) Jurisprudence

Addresses a number of fundamental questions, such as: What is law? What should it be? How is it created? Our readings consist of cutting-edge articles from leading modernist/postmodernist schools of thought including legal formalism, legal realism, interpretive theory, law and economics, feminist jurisprudence, critical legal studies, and law and literature. Same as LAWS 8128.

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LAWS-8318 (2) Seminar: Law and Economics

Introduces the uses and limitations of microeconomic theory for understanding and resolving legal problems. Emphasizes concepts prominent in the law and economics literature such as cost, transaction costs, utility, and rational self interest.

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LAWS-8505 (2) Sem Interdisciplinary Perspectives on Law and Social Change

Introduces legal institutions engaged in social change, from courts, to Congress, to bureaucracies and organizations. Posits tension between tasks of dispute resolution and public policy development and institutional adaptations. Considers the role of public opinion and the classics of legal formalism to more critical accounts. Considers postmodern theory and empirical legal scholarship. Presents alternatives to court-centered approaches to change, including community lawyering and organizing, law and social movements, and legislation. Prerequisites: Restricted to Law students only.

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LAWS-8538 (2) Seminar: Modern Legal Theory Core Ideas

Explores key ideas that have shaped American law and legal thought, such as Holmes' bad man, the Coase Theorem, the "Hunch" theory of law, and others. Focuses on researching and writing many short papers.

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LAWS-8548 (2) Seminar: Theory of Punishment

Explores the various justifications that philosophers have developed to explain why we have the right to punish. Examines the historical evolution of our punishment system and focuses on the death penalty as a critical contemporary issue in the debate about the proper role of punishment in our society.

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LAWS-8608 (2) Seminar: Power, Ethics, and Professionalism

Examines critically the possibility and character of ethical reasoning within the legal profession in light of its institutional structures. Explores descriptive/normative accounts of the profession's structure, "Professionalism," and individual conscience. Put simply, the seminar explores whether it is possible to be a good lawyer and ethical person.

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LAWS-8728 (2) Seminar: Critical Theory Colloquium

Surveys critical legal theory; introduces the discipline of analytical engagement with law review literature; feminist legal theory, and critical race theory. Offers a deeper understanding of the purposes behind legal reforms, the interaction between law on the books and law in action, how different groups experience the law in different ways, and difficult yet rewarding nature of working through seemingly intractable and emotionally charged race, sex, and class issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6201 (3-4) Agency, Partnership, and the LLC

Surveys agency law whose principles are important in many other areas of law. Studies the legal organizations commonly used by small businesses: partnerships and limited liability companies (LLCs). Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

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LAWS-6211 (3) Corporations

Covers formation of corporations and their management; relations among shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

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LAWS-6221 (3) Principles of Auditing, Compliance, and Risk Management

Introduces the fundamental legal and business rules and processes involved in performing audit, compliance, and risk management. Investigates understanding and measuring risk, establishing standards for aggregating disparate information, gathering market data, calculating risk measures, and creating timely reporting tools for managing risk. Covers important regulations including Sarbanes-Oxley, HIPAA, and FISMA. Prerequisites: Restricted to Law students only.

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LAWS-6281 (3) Accounting Issues for Lawyers

Studies accounting and auditing problems in the form they are placed before the lawyer, including a succinct study of basic bookkeeping, in-depth legal analysis of the major current problems of financial accounting, and consideration of the conduct of the financial affairs of business.

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LAWS-6511 (3) Labor Law

Includes the subjects of evolution of labor relations laws; how a collective bargaining relationship is established; negotiation of the collective bargaining agreement; labor and the antitrust laws; and rights of the individual worker. Course materials frame the issue of how a developed or postindustrial democracy deals with the problems that arise out of the employment relationship; of the choices between laissez-faire, substantive regulation, and the private ordering of the employment relationship through the collective bargaining process.

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LAWS-6521 (3) Employment Law

Entails a survey of employment-at-will, workplace safety, workplace torts; ERISA and retirement, workers' compensation; controls on hours and wages; health insurance; disability and unemployment compensation.

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LAWS-6541 (2) Colorado Worker's Compensation Theory and Practice

Introduces the legal theories that underlie the no-fault compensation system, its historical evolution, policy conundrums, and ethical quandaries. Teaches the application of the procedural rules most frequently utilized in administrative setting. Studies the Workers' Compensation Act, the Workers' Compensation Rules of Procedure, and the Office of Administrative Courts Rules of Procedure. Prerequisites: Restricted to Law students only.

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LAWS-6551 (3) Employee Benefits and Compensation Law

Examines past and present employee benefits and compensation practices among private and public employers. Covers ERISA and defined benefit, defined contribution, and welfare benefit plans; equity awards granted by corporations; equity awards granted by LLCs and partnerships; nonqualified deferred compensation and Section 409A of the IRS; golden parachutes and Sections 280G and 4999 of the IRC. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-7011 (3) Creditors' Remedies and Debtors' Protection

Examines typical state rights and procedures for the enforcement of claims and federal and state law limitations providing protection to debtors in the process. Includes prejudgment remedies, statutory and equitable remedies, fraudulent conveyance principles, and exemptions and other judicial protections afforded debtors. Prerequisites: Restricted to Law students only.

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LAWS-7021 (3-4) Bankruptcy

Briefly examines nonbankruptcy business rehabilitation devices, followed by basic principles of federal bankruptcy law and the bankruptcy court system. Concludes with attention to business reorganizations under Chapter 11 of the Bankruptcy Code. Recommended prereq., LAWS 6001 and 7011.

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LAWS-7031 (3) Regulation of Financial Institutions

Focuses on the core banking law and works outward to cover a broader spectrum of bank-like financial institutions. Covers bank licensing, restrictions on bank business, regulating safety and soundness of banks, consumer protection of depositors and other bank customers, and regulatory examination and enforcement. Prerequisites: Restricted to Law students only.

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LAWS-7061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps, and warranties, capitalized terms, definitions, indemnifications and escrow). Prerequisites: Restricted to Law students only.

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LAWS-7101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions.

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LAWS-7111 (3) Contract Theory: Collisions of Contracting and Culture

Explores various contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, critical legal studies, law and society, relational theory, and others. Considers and critiques these theories as applied to particular contracting cultures, especially as applied to construction contracts.

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LAWS-7121 (3) Advanced Contracts: Commercial Transactions

Studies Article 2 and Article 2A of the Uniform Commercial Code, together with the Convention and the International Sale of Goods. Advanced contracts topics are explored in depth. Among other subjects, warranties, title, remedies, and risk of loss in the sale of lease of goods will be studied.

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LAWS-7201 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Same as TLEN 5270. Offered in alternate years.

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LAWS-7211 (3) Business Planning

Focuses on the development and use of concepts derived from a number of legal areas in the context of business planning and counseling. Topics such as formation of business entities, sale of a business, recapitalization, division, reorganization, and dissolution are considered. Prereqs., LAWS 6007,6201, and 6251 or 6211.

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LAWS-7221 (2-3) Government Regulation of Business.

Covers themes that explore the nature of the regulatory state and the realities of how businesses react to regulation. Provides an understanding of regulatory institutions; the tools of governmental regulation; and a critical perspective on regulation.

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LAWS-7261 (3) Corporate Finance

Examines a variety of important legal issues related to the funding and financing corporations including creditor protection laws, the Trust Indenture Act of 1939, fiduciary duties, bond indenture provisions, securities laws, and rights of equity holders. Covers efficient capitalization structures, corporated valuation techniques, capital markets and the efficient market theory, and cost of capital concept. Prereq., LAWS 6211 or 6251.

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LAWS-7271 (3) Venture Capital and Private Equity

Provides overview of the legal and financial principles to represent privately held companies, their founders and managers, and their investors. Emphasizes transaction structuring rather than judicial opinions. Includes the organization and financing of start-ups, structuring buyout transactions, exit strategies, legal organization of investment funds and other financial intermediaries. Discusses the relevant regulatory landscape, including securities law, bankruptcy, ERISA, and tax law.

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LAWS-7331 (2) Sports Law

Covers the application of rules from agency, antitrust, contracts, constitutional law (including sex discrimination), labor law, property, torts, unincorporated associations, and other subjects to those persons involved in the production and delivery of athletic competition to consumers. Explores the development of the application of these rules to a sports setting and related economic issues.

Prerequisites: Restricted to Law students only.

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Courses

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LAWS-7401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes.

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LAWS-7411 (2-3) Mergers, Acquisitions, and Reorganizations

Studies the planning of corporate mergers, acquisitions, and reorganizations, examining the application and integration of state corporate law, federal securities law, accounting principles, tax law, labor law, products liability law, environmental law, ERISA, and antitrust law.

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LAWS-7451 (3) Law and Finance for Entrepreneurs

Studies unique legal problems faced by entrepreneurs, including formation issues (choice of entity, rights of the founders, initial investors), operation issues (governance, key employees, intellectual property, financing), IPOs, and buy-outs.

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LAWS-7541 (2-3) Employment Discrimination

Examines statutory and constitutional prohibitions of discrimination in employment on the basis of race, gender, age, religion, national origin, and disability.

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LAWS-7601 (2-3) Business Transactions

Provides a practical understanding of how to apply the law in both transactional and litigation settings. Gives an interdisciplinary look at how various areas of the law are brought together in common factual settings. Teaches students to negotiate, document, and close the acquisition of a business covering the areas of practice of corporate, contracts, real property, secured transactions, and bankruptcy law. Tests, in a litigation setting, the decisions made during the acquisition stage.

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LAWS-8021 (3) Seminar: Consumer Empowerment

Considers contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, and critical legal studies. Explores and questions tensions among theories, focusing on how they interact with norms, goals, and functions of contract and consumer protection law. Observes these tensions "In action" through volunteer work with Heritage House, a home for young women who are "At risk" and cannot live with their families at this time for different reasons.

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LAWS-8101 (3) Business Law Colloquium

Business law scholars from CU and around the country present research papers at this weekly colloquium. Topics may include contracts, corporate law, securities regulation, tax, intellectual property, venture capital and private equity, and the legal profession. No prior knowledge of law and economics is expected, although some knowledge of business organizations will be useful. Prereq., LAWS 6211 or 6201. Prerequisites: Restricted to Law students only.

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LAWS-8351 (2) Seminar: Law and Economics of Utility Regulation

Discusses economics of regulation and matters ranging from neoclassical economic analysis to public choice theory to new institutional economics. Discusses several regulatory domains, including antitrust law, telecommunications regulation, and energy regulation. Highlights both economic and non-economic goals, including universal service, sustainability (e.g., renewable energy), and architecture (e.g., free speech concerns with regard to telecommunications networks). Prereqs., LAWS 6301 or 7201 or 7241 or TLEN 5835. Restricted to Law and TLEN students.

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LAWS-8401 (2) Seminar: Securities Litigation and Enforcement

Designed for students interested in studying topics related to securities litigation. Covers civil liability under the Securities Act of 1933, proxy fraud, class actions (with special emphasis on the Private Securities Litigation Reform Act and the Securities Litigation Uniform Standards Act), market manipulation, SEC enforcement actions, enforcement issues involving attorneys and accountants, criminal enforcement, international securities fraud, and securities arbitration.

Law School Law Business

LAWS-8521 (2) Seminar: Comparative Labor Law

Explores the laws and economic transformations that affect labor relations on a global scale.

Law School Law Business

LAWS-8701 (2) Seminar: Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409.

Law School Law Business

LAWS-9061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps and warranties, capitalized terms, definitions, indemnifications and escrow). Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9111 (4) Business Law Colloquium

Business law scholars from CU and around the country present research papers at this weekly colloquium. Topics may include contracts, corporate law, securities regulation, tax, intellectual property, venture capital and private equity, and the legal profession. No prior knowledge of law and economics is expected, although some knowledge of business organizations will be useful. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9341 (3) Law and Economics of the Information Age

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Restricted to Law students only. Prereq., LAWS 7201, 7241 or 7301. Same as TLEN 5620. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9701 (2) Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Restricted to Law students only. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409 Prerequisites: Restricted to Law students only.

Law School Law Business

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LAWS-6065 (3) Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of the law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this course: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? Prerequisites: Restricted to Law students only.

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LAWS-6128 (1-3) Legal Interpretation and the Legislative Process

Examines theories of legislation and the relation between legislatures and courts, emphasizing problems of statutory interpretation and other issues in the judicial use or misuse of statutes.

Prerequisites: Restricted to Law students only.

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LAWS-6205 (3) Lawyers for Social Change

Helps students expand their perspective to understand the ways in which lawyers more broadly participate in social change work in this service learning class. Analyzes case histories of cause lawyering. The service learning component is based on the precept that one of the most effective ways to learn a role is to perform that role. Students will participate as social change lawyers by working with a local community to help it develop projects that the community believes will help it better itself. Prerequisites: Restricted to Law students only.

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LAWS-7015 (3) First Amendment

Examines speech and religion clauses of the First Amendment. Includes the philosophical foundation of free expression, analytical problems in First Amendment jurisprudence, and the relationships between free exercise of religion and the separation of church and state. Prerequisites: Restricted to Law students only.

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LAWS-7025 (3) Civil Rights Legislation

Presents a comprehensive study of federal civil rights statutes briefly reviewed in other courses (e.g., Constitutional Law or Federal Courts). Studies federal civil rights statutes, their judicial application, and their interrelationships as a discretely significant body of law of increasing theoretical interest and practical importance.

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LAWS-7055 (3) Education Law

Considers issues raised by the interaction of law and education. Issues may include the legitimacy of compulsory schooling, alternatives to public schools, socialization and discipline in the schools, and questions of equal educational opportunities.

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LAWS-7205 (3) Administrative Law

Covers practices and procedures of administrative agencies and limitations thereon, including the Federal Administrative Procedure Act, and the relationship between courts and agencies.

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LAWS-7255 (3) Local Government

Studies state legislative and judicial control of the activities, powers, and duties of local governmental units, including home-rule cities and counties, and some problems of federal, state, and local constitutional and statutory limitations on governmental powers when exercised by local governmental units (e.g., the powers to regulate private activities, tax, spend, borrow money, and condemn private property for public uses). Offered in alternate years.

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LAWS-7285 (2-3) Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers and provides an opportunity to grow as colleagues and teammates. Recommended prereq. LAWS 7055. Prerequisites: Restricted to Law students only.

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LAWS-7325 (3) Election Law

Examines the rapidly evolving field of election law: the right to vote, voting procedures, redistricting, candidate selection, campaign finance laws, and direct democracy. Emphasizes federal law, including applicable constitutional jurisprudence.

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LAWS-7475 (2) Advanced Torts

Studies selected tort actions and theories. Topics covered may include "Dignitary torts" (e.g., defamation, privacy, etc.), business torts, and product liability. Offered in alternate years.

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LAWS-7515 (3) Poverty Law

Explores the legal and policy responses to poverty in the United States and addresses how the law shapes the lives of poor people and communities. Examines the extent of poverty in the United States, the root causes, and the historical development of social welfare policy. Focuses on the rights-based aspect of poverty law and various policies that attempt to ameliorate poverty.

Prerequisites: Restricted to Law students only.

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LAWS-7525 (3) Race and American Law

Examines the judiciary's approach to racial discrimination from America's colonial period to the present day. Concludes with an analysis of the contemporary status of racial subordination in the legal system and considers recent scholarly critiques of the law's limitations in effecting racial justice. Employs an interdisciplinary approach and covers the experiences of American Indians, African Americans, Asian Pacific Americans, and Chicana/os.

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LAWS-8005 (2) Seminar: Advanced Constitutional Law Equality and Privacy

Addresses "Equal Protection" rights under the Fourteenth Amendment and "Privacy" rights to personal autonomy. Analyzes varied constitutional grounds for recognizing or rejecting abortion rights; limits on Congressional power to pass civil rights laws granting broader rights than the Fourteenth Amendment does; treatment of sexual orientation-related laws and government actions as "Privacy" versus "Equality" matters; and "Benign"/"remedial" race- and sex-based government decisions such as affirmative action and same-sex schools.

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LAWS-8015 (1-3) Seminar: Constitutional Theory

Examines the role of the courts and the other branches of government in defining and enforcing constitutional values. Relevant readings are from philosophy, social sciences, and legal scholarship, as well as cases. Prerequisites: Restricted to Law students only.

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LAWS-8025 (2) Seminar: Advanced Topics in Federalism

Explores the development of "Our Federalism", the relationship between federal and state governments, from the founding period of the US Supreme Court's recent New Federalism jurisprudence. Studies historical material, commentary, and case law, and addresses how federalism is defined; the values that federalism serves; the role of federalism in our interconnected, global society; the Supreme Court's boundaries of federalism; the direction of New Federalism.

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LAWS-8035 (2) Seminar: Intersection of Antidiscrimination and First Amendment Law

Addresses past and continuing debates involving potential tensions between antidiscrimination principles and free speech, free exercise, and establishment clause values. Examines constitutional protections under the First Amendment and the equal protection clause, together with an array of existing and proposed federal and state antidiscrimination laws regulating employment, housing, and public accommodations, among other areas.

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LAWS-8045 (2) Seminar: Comparative Constitutional Law

Examines legal structures and concepts typically found in constitutions, including judicial review, distinction between legislative and executive authority, federalism and the principle of subsidiarity, the relationship between church and state, free speech and press, and social welfare rights. Examines differences between constitutional law and other domestic law, role of comparative constitutional law in domestic constitutional law adjudication. Emphasizes American and Swedish perspectives.

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LAWS-8055 (1-2) Seminar: Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this seminar: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? This is a year-long seminar.

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LAWS-8095 (2) Seminar: Problems in Constitutional Law

Explores how theories of social freedom and self-governance developed in the United States. Analyzes the most controversial socio-legal issues as they relate to privacy, equal protection and other questions of substantive due process. Discusses recent trends in national security and information privacy to evaluate their overall relevance to civil liberties and nascent influence on the fundamental rights debate in the US and abroad.

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LAWS-8205 (3) Seminar: Law and Democratic Governance

Explores cutting-edge debates in election law. Studies different perspectives on the current controversies in the field, in addition to select opportunities to engage scholars directly about their work. Develops students' understanding of the law of democracy, exposing students to some of the best scholarship, and improving students' ability to evaluate and critique legal scholarship. Recommended prereq., LAWS 7325. Same as PSI 7171. Prerequisites: Restricted to Law students only.

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LAWS-8285 (2-3) Seminar: Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply, and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers, and provides an opportunity to grow as colleagues and teammates. Requires extra time outside of class. Recommended prereq., LAWS 7055. Prerequisites: Restricted to Law students only.

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LAWS-8395 (2) Seminar: Separation of Powers

Explores the constitutional relationships among the three branches of the federal government in the sphere of domestic matters, omitting foreign affairs and war. Develops topics including executive orders, Congressional control of the executive and the courts, appointment and removal of officers, impeachment, executive privilege, use of military tribunals, and the election of 2000. a seminar paper will be required.

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LAWS-8405 (2) Seminar: Public Health Law and Ethics

Explores rules of law pertaining to the American public health care system and the ethical issues raised by the government's effort to protect the health of the American people. To be held at Health Sciences Campus.

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LAWS-8508 (2) Seminar: Constitutional Foundations Core Ideas

Focuses on core ideas in U.S. constitutional law, such as means/ends analysis, institutional competence, rights definitions, and juridical techniques for limiting governmental powers. Draws from historical writings, contemporary press accounts, learned treatises, oral arguments, law review articles, and key judicial opinions such as *Mccullough v. Maryland*, *Lochner v. New York*, *Brown v. Board of Education*.

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LAWS-8515 (2) Seminar: Forced Labor

Reviews several regimes of compulsory labor that have been central to the American experience: Black chattel slavery in the antebellum South; debt peonage, criminal surety, and related institutions of agricultural involuntary servitude; convict leasing and other forms of compulsory inmate labor; "White slavery" and prostitution; and forced labor among immigrants. Emphasizes the complicated role that the law has played, and in some respects continues to play, in both supporting and undermining such institutions.

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LAWS-8535 (2) Seminar: Class and Law

Explores issues relating social class to such areas as labor relations, law enforcement, controls on radical movements, and the distribution of wealth and power. Considers problems defining social class.

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LAWS-8555 (2) Seminar: Race, Education and American Law

Explores issues of equity, access, and reform in American public education, particularly as it pertains to race, including desegregation, diversity, equal protection and public education, tracking and high-stakes testing, courts or the political branches, charters and vouchers. Restricted to Law students only. Recommended prereq., LAWS 7525. Prerequisites: Restricted to Law students only.

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LAWS-8705 (2) Seminar: Affordable Housing

Explores the policy, legal, and practical dynamics that drive the development and preservation of privately owned, government subsidized affordable housing. Investigates the nature of the market for housing, with particular emphasis on multifamily rental housing, and debates about market failure in that context and then outline and contrast the major regulatory responses to such market failure. Explores how subsidy programs work in practice, focusing on model documents to frame sample transactions.

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LAWS-8755 (2) Seminar: Higher Education and the Law

Examines the goals, governance, norms, and ideals of American institutions of higher education, and how those policies are shaped by the legal system. Examines the legal relationship between institutions of higher education and its various constituents: faculty, presidents, governing boards, students, alumni, and staff. Spans several traditional doctrinal categories, including contract, torts, employment law, constitutional law, intellectual property, tax, and antitrust.

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LAWS-6035 (3) White Collar Crime

Examines distinctions between white collar crime and other types of criminal activity and the needs for and arguments against white collar laws and law enforcement. Studies securities fraud, mail and wire fraud, insider trading, money laundering, false statements, conspiracy and criminal forfeiture statutes. Includes use of the grand jury, privileges applicable in the corporate setting, immunity, discovery and the impact of parallel civil proceedings. Examines effect of government policy on corporations and their counsel, pre-trial and trial strategy, jury selection, and victim notification and restitution options. Prerequisites: Restricted to Law students only.

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LAWS-6045 (3) Criminal Procedure

Focuses primarily on the constitutional limitations applicable to such police investigative techniques as arrest, search, seizure, electronic surveillance, interrogation, and lineup identification.

Prerequisites: Restricted to Law students only.

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LAWS-6055 (3) Post-Conviction Criminal Procedure

Addresses sentencing process and schemes, direct appeals, probation modification and revocation, parole revocation, pardon and commutation processes, post-conviction litigation and appeal in both state and federal court, federal review of state convictions through habeas and/or the AEDPA, and ethical issues that arise in post-conviction proceedings. Prerequisites: Restricted to Law students only.

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LAWS-6213 (2) Advanced Appellate Advocacy

Advanced study and practice of written and oral appellate advocacy. Builds on the foundation established in the required first-year course in appellate advocacy, but provides more extensive coverage, practice, and evaluation. Personalized instruction in brief writing, including detailed, one-on-one critique of their work. Include advanced techniques for organizing and writing a brief, and advanced instruction on the strategy and process of oral argument. Required to research, write, and rewrite an appellate brief, and conduct several oral arguments. Attend oral arguments of the United States Court of Appeals for the Tenth Circuit and the Colorado Court of Appeals. Prereq., LAWS 7106. Prerequisites: Restricted to Law students only.

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LAWS-6353 (3) Evidence

Studies the methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Prerequisites: Restricted to Law students only.

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LAWS-6373 (3) Federal Litigation: Everything but the Trial

Litigates through all pretrial phases as plaintiff's counsel, a mock federal case: an employee's challenge to compensation and termination, with possible claims including breach of contract, breach of the implied covenant of good faith and fair dealing, violation of wage payment statutory and regulatory requirements, and fraudulent inducement to contract. Prereq., LAWS 6353. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6803 (3) Quantitative Methods

Equips students to deal effectively with experts, whether as consultants or as adverse witnesses, and to enable the identification of a quantitative issue. Helps students to become multi-dimensional in quantitative literacy. Enables students to be comfortable reading statistical arguments, performing basic analyses, writing about statistics, expressing quantitative ideas in graphs, questioning an expert, and understanding the power of computer programming.

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LAWS-7003 (3) Federal Courts

Looks at structure and jurisdiction of the federal courts, emphasizing problems of federalism and separation of powers and their relationship to resolution of substantive disputes.

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LAWS-7013 (2) Supreme Court Decision Making

Students deliberate over several important cases as "Justices" of the Supreme Court. Class is divided into three "Courts" with the first hour spent in deliberation and the second hour in discussion of the deliberative process as well as the substantive issues.

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LAWS-7023 (2) Jury Selection and History

Studies the history of the jury from ancient times through the implications of Apprendi, the grand jury from the time of Henry II through modern federal practice, and current jury selection procedures, both federal and Colorado, both civil and criminal. Experienced trial attorneys will work with students to demonstrate jury selection.

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LAWS-7045 (3) Criminal Procedure: Adjudicative Process

Focuses primarily on criminal procedure at and after trial. Looks at bail, prosecutorial discretion, discovery, plea bargaining, speedy trial, jury trial, the right to counsel at trial, double jeopardy, appeal, and federal habeas corpus.

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LAWS-7303 (3) Complex Civil Litigation

Covers civil procedure in modern complex multiparty suits, including class actions in such settings as employment discrimination and mass torts, and problems in discovery, joinder, res judicata, collateral estoppel, and judicial management in such suits. Offered in alternate years.

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LAWS-7333 (2) Advanced Evidence: Forensic Science and the Criminal Courts

Explores the admissibility of forensic science opinion and expert testimony, its use as evidence at a trial, and the challenges that such evidence may pose for the courts and the entire criminal justice system in the future.

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LAWS-7345 (2) Comparative Criminal Procedure

Takes an in-depth look at some of the basic features of modern criminal justice systems that share the civil law tradition with the hope that such study will provide a vehicle for a deeper understanding of the strengths and weaknesses of the American system of criminal justice. Prereq., LAWS 6045.

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LAWS-8335 (2) Seminar: Advanced Criminal Procedure

Focuses on a particular topic in criminal procedure. Topics include the privilege against self-incrimination, juries, and defense and prosecution ethics.

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LAWS-8409 (2) Seminar Special Problems in Conflict Resolution and Management

Develops a comprehensive description of dispute; creates a conflict assessment of the stakeholders in and dynamics of dispute; assess obstacles to and opportunities for mediation; recommend strategy for addressing and managing the dispute. Prerequisites: Restricted to Law students only.

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LAWS-8533 (2) Seminar: Criminal Law in Context: Legal and Social Images of Victims and Perpetrators

Contextualizes criminal law by engaging in an in depth study of the legal and social characterizations of victims and perpetrators in U.S. law, politics, and popular culture. Prerequisites: Restricted to Law students only.

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LAWS-6206 (3) Litigation Drafting

Examines the intersection of civil procedure and legal writing. Emphasizes the drafting of persuasive adversarial litigation documents, including complaints, answers, motions in limine, motions to dismiss, motions of summary judgment, and jury instructions. Intensive writing and workshop format.

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LAWS-6226 (2-3) Advanced Legal Research and Writing

Focuses on improvement of legal writing skills including organizing, drafting, and revising legal writing. Improves research and analysis skills. Prerequisites: Restricted to Law students only.

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LAWS-6236 (2) Judicial Opinion Writing

Places contemporary American judicial opinion in historical and comparative context. Analyzes individual and institutional writing choices that authors of judicial opinions must make and ethical dilemmas they must confront. Builds upon the first-year legal-writing curriculum. Challenges students to develop and defend their own opinion-writing approaches and styles as well as to write from approaches and in styles that are not their own.

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LAWS-6458 (2) Creative Writing for Lawyers

Requires substantial writing and reading. Begins with participants bringing to class a piece of creative writing consisting of three to five thousand words. Each session consists of one hour of discussion and critique of an assigned writing exercise that everyone has prepared for the class, and one hour of workshop critique of each participant's longer work, in turn.

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LAWS-6856 (2) Advanced Legal Research

Offers an in-depth look at research resources and methods. Includes sources from the judicial, legislative, and executive branches of federal and state government; research in topical areas such as environmental law, taxation, and international law; and extensive coverage of secondary and nonlaw resources. Covers both print and electronic sources. Students will have several assignments and a final project.

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LAWS-6866 (1) Colorado Legal Research

Surveys resources and methods to effectively research Colorado law. Covers primary and secondary resources including Colorado statutes, cases and digests, regulations, and constitution and practice materials. Covers how to research Colorado municipal law and other Colorado topics. Prerequisites: Restricted to Law students only.

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LAWS-6876 (2) Legal Research Skills for Practice

Approaches legal research from a practice-focused perspective using hands-on sessions in the library. Instructs: how to find and use resources specific to a particular practice area; how to evaluate and weigh strengths and weaknesses of the various legal resources available; and, how to use legal resources efficiently. Includes research strategies and methods, primary and secondary resources, and research using library catalogs and Westlaw, Lexis, and other vendors. Prerequisites: Restricted to Law students only.

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LAWS-6886 (3) Advanced Legal Research and Analysis

Develops students' ability to think critically about and solve current legal problems. Evaluates the benefits and detriments of both print and on-line legal resources, and how to create an efficient research plan. Formulates and applies research strategies to real-world legal problems, and uses legal analysis to refine and improve research results. Note: students who have taken LAWS 6856 Advanced Legal Research course may not enroll in this course. Prerequisites: Restricted to Law students only.

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LAWS-6896 (3) Advanced Legal Research and Writing for Practice

Advances and improves legal research and writing skills learned in first year. Proposes variety of assignment types across substantive and procedural areas to prepare for experiences as summer associates or new attorneys. Prerequisites: Restricted to Law students only.

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LAWS-7846 (1-3) Independent Legal Research

Involves independent study and preparation of a research paper under faculty supervision. Students produce a research paper equivalent to a seminar research paper. a draft is submitted, subjected to critique by the faculty member, and redrafted. Available during or after the fifth semester of law school. Prereq., instructor consent. Prerequisites: Restricted to Law students only.

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LAWS-7896 (1) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

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LAWS-7906 (2) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

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LAWS-7916 (1) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

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LAWS-7926 (2) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

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LAWS-7936 (1) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

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LAWS-7946 (2) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

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LAWS-8458 (2) Seminar: Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final paper will be required.

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LAWS-9846 (1-2) LLM Seminar

LLM students study academic legal writing in this 1-credit per semester yearlong course. Topics covered will include: the purpose of academic legal writing; how academic legal writing differs from other forms of legal writing; topic selection; legal research (methods and ethics); first drafts; editing; academic workshops; and publishing. In addition, guest speakers will talk to LLM students about career planning and job seeking. International LLM students will learn about the American legal system. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9856 (1-4) LL.M Thesis

LL.M students are required to write a thesis in order to graduate. Requires significant work of original research on a topic chosen in close consultation with advisors and other law school faculty, and assignments include due dates for topic selection, drafts, and workshop delivery. Thesis is worth two credits. In exceptional circumstances and only after pre-approval, an LL.M student may enroll for a third or fourth credit. Prerequisites: Restricted to Law students only.

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LAWS-6104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; and construction problems in estate distribution. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

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LAWS-6114 (2) Construction Law

Focuses on the basic principles and practices of construction law. Provides an overview of construction industry participants and players (engineers, contractors, insurers, etc.) and discusses and analyzes the various obligations and liabilities of these parties. Covers construction and design contracting, construction claims, professional negligence, construction insurance and suretyship, and ADR in construction. Provides transactional-practice oriented exercises.

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LAWS-7024 (2-3) Real Estate Planning

Considers various contemporary legal problems involved in the ownership, use, development, and operation of real estate. Emphasizes the income tax and financing aspects of commercial and residential use and development such as shopping plazas and apartment buildings. Same as ACCT 6730.

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LAWS-7154 (3) Land Use Planning

Explores mechanisms for public control of private land uses, such as planning, zoning, and regulation of land development; including consideration of federal and state constitutional and statutory limitations on local governments. Offered in alternate years.

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LAWS-7164 (2) Land Conservation Law

Focuses on private land conservation efforts in the United States, and particularly Colorado, and also considers public land conservation programs. Analyzes real property principles and instruments used to protect land, and the development and acceptance of conservation easements in gross as a mechanism for protection, financing mechanisms for land conservation, including direct government funding and indirect funding through tax incentives at the federal, state and local levels. Understanding of Real Property and Tax concepts helpful.

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LAWS-8104 (2) Seminar: Cities, Suburbs, and the Law

Explores dynamics that play out in the relationship between cities, suburbs, exurbs and other patterns of urban development. Explores the nature of local power, relations between local jurisdictions, and metropolitan and regional approaches to governance. Includes fiscal disparities, ethnic and racial segregation, sprawl and growth controls, affordable housing, transportation, and the urban/rural divide.

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LAWS-9104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; construction problems in estate distribution. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6112 (3) Foundations of American Natural Resources Law

Introduces students to the law of natural resources. Examines the legal, historical, political, and intellectual influences that shape resources development and conservation. Same as ENVS 6112.
Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

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LAWS-6302 (3) Water Resources

Analyzes regional and national water problems, including the legal methods by which surface and ground water supplies are allocated, managed, and protected. Prerequisites: Restricted to Law students only.

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LAWS-6502 (2) Wildlife and the Law

Examines the law that protects wildlife, its habitat, and biodiversity. Explores human-caused threats including habitat destruction, illegal trade, and climate change. Focuses on statutes, case law, environmental ethics, and current controversies to highlight legal, scientific, and political strategies for protecting biodiversity. Particular emphasis is placed on the U.S. Endangered Species Act.

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LAWS-6602 (3) Cultural Property Law

Concerns domestic and International regulation of property that expresses group identity and experience. Organized around traditional categories of property (real, personal, and intellectual), the course covers historic preservation, archeological resources, art and museum law, with attention to indigenous people's advocacy on burial sites, traditional lands, ceremonies, music, symbols, ethnobotany, genetic information, and language. May satisfy upper-level writing requirement. Prerequisites: Restricted to Law students only.

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LAWS-6712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007, decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress.

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LAWS-6722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail competition. Prerequisites: Restricted to Law students only.

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LAWS-6732 (3) Renewable Energy Project Finance and Development

Examines renewable energy and how legal topics impact financing projects. Reviews structure, regulation, and functioning of electric energy industry and laws applicable to development, ownership and operation of renewable energy projects across technologies. Addresses legal policy, economic and financing issues associated with expansion and improvement of the transmission grid to support renewable energy development. Prerequisites: Restricted to Law students only.

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LAWS-7102 (2-3) Oil and Gas

Deals with the legal problems associated with private arrangements for the ownership and development of oil and gas: deeds and leases to oil and gas rights, trespass, adverse possession, implied covenants in leases, conveyances of fractional interests, and the interaction of private rights and conservation regulation. Prerequisites: Restricted to Law students only.

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LAWS-7122 (2-3) Mining and Energy Law

Addresses major issues affecting the development of mineral resources through mining activity. Includes the regulation of the impacts of mining on the environment on both public and private land. Covers the Mining Law of 1872, the Federal Coal Leasing Amendments, and state regulation of the impacts of mining on the environment.

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LAWS-7132 (3) Energy, Insecurity, Sustainable Law

Examines why national security deals not only with armed aggression and the ability to thwart military invasions or subversion, but also includes critical threats to vital national and international support systems such as the economy, energy, and the environment.

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LAWS-7202 (3) Environmental Law

Examines and analyzes important federal pollution control statutes, including the National Environmental Policy Act, the Clean Air Act and Clean Water Act, Solid Waste Act, and Superfund. Considers related economic theory, ethics, and policy issues.

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LAWS-7212 (2) Environmental Litigation

Examines the litigation strategies and procedures used to enforce and defend against enforcement under environmental protection statutes, such as the Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, and the Toxic Substances Control Act. Covers civil enforcement, and citizen's suits.

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LAWS-7222 (2-3) Environmental Decision-Making

Explores the foundational issues that underlie agency decision-making, including environmental ethics, cost-benefit analysis, risk assessment, constitutional law, and administrative law. Compares and contrasts National Environmental Policy Act and the National Historic Preservation Act and the Endangered Species Act.

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LAWS-7232 (3) Energy Justice

Establishes why nearly a third of the world populated by the energy oppressed poor, presents a major national and international "legislative" or socio political problem calling for answers from governments and civil societies in the developed and developing world. Explains and elucidates the concept of energy justice, its jurisprudential heritage, and its meaning and relevance in contemporary society. Case studies present problem solving frameworks spanning the political, social, behavioral, engineering, natural sciences, and law. Prerequisites: Restricted to Law students only.

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LAWS-7402 (2) The Law of Toxic and Hazardous Wastes

Examines the EPA's federal hazardous waste statutes, including the Resource Conservation and Recovery Act of 1976 (RCRA), and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Analyzes the RCRA "Cradle-to-grave" hazardous waste program, and addresses the evolving CERCLA liability scheme and cleanup process.

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LAWS-7725 (3) American Indian Law I

Investigates the federal statutory, decisional, and constitutional law that bears upon American Indians, tribal governments, and Indian reservation transactions. Prerequisites: Restricted to Law students only.

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LAWS-7735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Prereq., LAWS 7725.

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LAWS-7745 (2-3) Jurisdiction in Indian Country

Examines the current state of the justice system within Indian nations today. Includes understanding the respective roles of tribal and state law enforcement authorities, as well as the Bureau of Indian Affairs' Office of Justice Services, the Federal Bureau of Investigation, and the Drug Enforcement Administration. Examines relationship between federal and tribal courts; substantive laws; and advocates who appear before them. Prerequisites: Restricted to Law students only.

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LAWS-8112 (2-3) Seminar: Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip, and requires additional field trip expenses.

LAWS 6112 is strongly recommended as a prerequisite, however students must have taken or be concurrently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. May be repeated up to 6 total credit hours.

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LAWS-8725 (2) Seminar: Advanced Topics in American Indian Law

Examines a variety of current issues related to American Indian Law. The topics will change to reflect the subjects that emerge at each time that the seminar is offered. Some examples of topics considered in this seminar include legal protections for American Indian religion and culture, cultural property, Tribal law, gaming law, and Native American natural and cultural resources law. Coreq., LAWS 7725.

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LAWS-9002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Restricted to Law students only. Prereq., LAWS 6112. Prerequisites: Restricted to Law students only.

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LAWS-9112 (2-3) Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip and requires additional field trip expenses. May be repeated up to 5 total credit hours. Restricted to Law students only. Recommended prereq., LAWS 6112 or students must have taken or be currently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. Prerequisites: Restricted to Law students only.

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LAWS-9712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007 decision in *Massachusetts v. EPA*, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail completion. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Restricted to Law students only. Prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

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LAWS-6138 (2-3) Federal Tax Politics

Studies the tax system as the nexus of politics and economics. Examines how various interests and entities use the many tools of political power to shape the tax system. Intended for those interested in politics and legislation, rather than for the tax specialist.

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LAWS-6157 (3) Corporate Taxation

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prerequisites: Restricted to Law students only.

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LAWS-6167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., LAWS 6007.

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LAWS-7207 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prerequisites: Restricted to Law students only.

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LAWS-7217 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prerequisites: Requires pre-requisite course of LAWS 7207.

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LAWS-7617 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation of income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Prereq., LAWS 6007 or 6157. Same as ACCT 6780.

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LAWS-8407 (2) Seminar: Tax Policy

Explores current issues in tax policy. Topics may include the tax legislative process, consumption taxes, taxes and distributive justice, the tax exemption for nonprofits, carbon taxes, corporate taxes and integration, and taxes and entrepreneurship. Prereqs., Federal Income Tax and LAWS 6109. Prerequisites: Restricted to Law students only.

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LAWS-9167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sales of interests, and liquidation. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6210 (2-3) Comparative Law

Considers foreign solutions to certain key legal problems. Focuses on general problems of legal process, rather than on substantive rules. Topics include the role of lawyers, civil dispute resolution, criminal procedure, and employment discrimination. Covers different legal systems in different years.

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LAWS-6220 (3) Introduction to Jewish/Israeli Law

Outlines the history and basic principles of Jewish Law, Halakhic system that encompasses Biblical law and the Rabbinic law. Covers Legal Sources of the Jewish laws, interpretation, legislation, custom, precedence and legal reasoning. Explores the study of modern legal system of the state of Israel and examines the problematic nature of the incorporation of the Law of personal status in the Rabbinical and in general courts. Prerequisites: Restricted to Law students only.

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LAWS-6400 (3) International Law

Examines the nature, structure, and sources of international law, the relationship between international law and domestic U.S. law, the role of international organizations such as the United Nations, the methods of resolving international disputes, the bases of international jurisdiction, and select substantive areas of international law that may change from semester to semester. Prerequisites: Restricted to Law students only.

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LAWS-6410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Prerequisites: Restricted to Law students only.

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LAWS-6420 (1) Law and the Holocaust

Explores comparative law, jurisprudence, conflicts of laws and international law. Examines the Nazi philosophy of law emanating from its egregious racial ideology, and how it was used to pervert Germany's legal system to discriminate against, ostracize, dehumanize, and eliminate certain classes of people. Studies the role of international law in rectifying the damage by bringing perpetrators to justice and constructing a legal system designed to prevent a repetition.

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LAWS-6510 (2-3) International Environmental Law

Examines international environmental law, including transboundary impacts and global issues. Addresses such issues as intergenerational equities, principles of compensation, and if international environmental norms should receive special environmental norm consideration. A course in public international law is not a prerequisite, but students who have not taken such a course will probably find it useful to do some additional background reading. Offered in alternate years.

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LAWS-6518 (3) Introduction to Islamic Law

Examines the Formative Era of Islamic Law, through its sources and methodologies. Examines the Established Era of the Schools of Law including differences between Sunni and Shiite Islamic Law. Examines human rights, terrorism, political Islam, women's rights and rights of religious minorities, criminal law, and finance law, and the growing role of fundamentalism in these areas. Examines the relevance of Islam and Islamic law in today's world.

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LAWS-6531 (3) Comparative Employment Law

In today's globalized world, lawyers are increasingly likely to encounter issues involving foreign employment. The course will provide substantive knowledge about foreign employment law and its relation to American law, as well as a comparative framework to assess the relative merits of the American approach to employment law.

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LAWS-7065 (3-4) Immigration and Citizenship Law

Covers legal issues pertaining to noncitizens of the United States, especially their right to enter and remain as immigrants and nonimmigrants. Topics include admission and exclusion, deportation, and refugees and political asylum. Approaches topics from various perspectives, including constitutional law, statutory interpretation, planning, ethics, history, and policy. Prerequisites: Restricted to Law students only.

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LAWS-7100 (2-3) International Criminal Law: Theory and Practice

Exposes students to the rapidly growing body of jurisprudence, both international and national, wherein international humanitarian and human rights law are being applied for the purposes of prosecution, trial and punishment of individuals alleged to be responsible for the commission of war crimes, crimes against humanity, genocide and, more recently, terrorism. Prereq., LAWS 6400.

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LAWS-7310 (3) International Dispute Settlement

Examines various mechanisms for the settlement of international disputes. Includes negotiation, inquiry, mediation, conciliation, arbitration, and adjudication. Focuses on intergovernmental dispute resolution.

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LAWS-7320 (3) International Criminal Law

Surveys international human rights law and international crime and punishment. Addresses idea of rights from a historical, philosophical, conceptual and analytical perspective; explores the "Primary rules of conduct" as well as adjudication and remedies, and selected rights from a comparative perspective. Recommended prereq., LAWS 6400.

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LAWS-7440 (3) International Human Rights and Humanitarian Law

Surveys international human rights both in law and in philosophy, both current and historical.

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LAWS-7605 (2) Refugee and Asylum Law

Focuses on protections offered under international and domestic law for persons who are threatened by persecution or other adverse conditions in their country of origin. Covers who is a refugee and the protections they have or do not have under United States and international law.

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LAWS-7611 (2-3) International Business Transactions

Examines the sources of international business law, the relationship between such law and the U.S. legal system, the choice of law in international business disputes, the special issues that arise when doing business with foreign governments, the law governing international sales and the shipment of goods, and international intellectual property protection. Offered in alternate years.

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LAWS-7615 (4) Immigration Law and Immigrants' Rights

Addresses four broad questions: Who is a citizen of the United States? Who else can come to this country? When and why can noncitizens be forced to leave? Who has the authority to answer these questions? These questions prompt us to examine the history of U.S. immigration, the constitutional-statutory-regulatory framework that governs immigration and citizenship law, and the federal agencies that administer it. Also addresses contemporary challenges to, and assertions of, immigrants' rights. Same as PSCI 7181. Prerequisites: Restricted to Law students only.

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LAWS-8310 (2) Seminar: International Crimes Punishment

Addresses issues in international criminal law in three parts: 1) basic contents of international law, 2) international criminal tribunals that enforce international criminal law, and 3) national efforts to bring international criminal prosecutions. Recommended prereqs., LAWS 6400 and 7440. Prerequisites: Restricted to Law students only.

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LAWS-8320 (2) Seminar: Oil and International Relations

Addresses the extent to which the international community of nations is oil dependent. Assesses the impact and the geopolitical dangers to international relations arising from the expanding demand for scarce oil from developing, as well as developed, economies.

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LAWS-8430 (2) Seminar: Comparative Public Health Law and Ethics

Compares public health law systems to those in other countries. Studies the goals, legal structures, and services provided, together with such issues of coercion as quarantines, monitoring, mandates and prohibitions, and forcing pharmaceutical companies to make available inexpensive generic drugs.

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LAWS-9410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-6029 (4) Legal Aid Criminal Practice 1

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

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LAWS-6039 (4) Criminal Defense Clinic 2

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

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LAWS-6079 (4) Criminal Defense Clinic

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants. Develops working knowledge of courtroom skills, advocacy, and evidence presentation. Concludes with full mock trial. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

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LAWS-6109 (2) Trial Advocacy

Focuses on voir dire, opening statement, direct examination of witnesses, and cross examination. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

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LAWS-6119 (1) Deposition Skills

Provides valuable skills to assume active roles in the deposition process. Explores why and when to take depositions; drafting and objecting to deposition notices for individual deponents, non-party witnesses, and corporate designees; drafting successful outlines, proper questions and objections; using exhibits; furthering case theory, making and using stipulations; using depositions in pretrial motions and at trial. Prerequisites: Restricted to Law students only.

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LAWS-7019 (1-2) Advanced Clinical Practicum

Enables a clinical; student an optional 1-2 credit course to complete an ongoing clinic project that does not reach its natural conclusion during the regular term of the clinic. The practicum may be used in connection with any existing clinical course, but only with permission, and under the supervision of the clinical faculty member. A clinical student must complete a minimum of 50 hours of work per credit taken. Prerequisites: Restricted to Law students only.

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LAWS-7029 (3) Appellate Advocacy Clinic

Provides a clinical course that enables students to work on briefs of criminal cases being handled by the Appellate Division of the Public Defender or Attorney General's Office. Instruction in oral advocacy is given. Enrollment limited to eight students.

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LAWS-7106 (1-2) Moot Court Competition

Offers an intensive involvement in legal research, appellate brief writing, and oral arguments in a competitive context. Student finalists may continue involvement in regional and national competitions. Prerequisites: Restricted to Law students only.

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LAWS-7159 (2) Advanced Trial Advocacy

Offers an advanced course covering trial practice elements. Open only to students who have taken LAWS 6109. Prerequisites: Restricted to Law students only.

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LAWS-7169 (2) Motions Advocacy

Provides practical training in preparing and arguing pretrial, post-trial, and chambers motions to an experienced federal judge based on materials from actual case files. Assigns some research papers. Limited to 15 third-year students with interest in trial advocacy and willingness to participate in confrontational exercises. Counts as practice hours. Prerequisites: Restricted to Law students only.

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LAWS-7209 (4) Natural Resources Law Clinic

Offers hands-on experience in the practice of natural resources law in the Rocky Mountain region to a select number of clinic students. The clinic's docket of active cases focuses on public land law and the environmental statutes protecting those lands and their resources. Students participate in projects that test the full range of lawyering skills, including traditional litigation, administrative advocacy, legislative drafting, and the conduct of complex negotiations and settlements. Prerequisites: Restricted to Law students only.

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LAWS-7309 (2-4) American Indian Law Clinic

Offers a clinical education course involving participation in the representation and advocacy of Indian causes---land or water claims, Indian religious freedom, job or other discrimination based on race, and issues implicating tribal sovereignty. Recommended prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

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LAWS-7406 (1) International Moot Court Competition

Open only to students who actively participate in the seminar preparing for the competition, in the preparation of memorials for the competition, and in the practice of oral arguments or regional oral arguments.

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LAWS-7409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Credit is not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course.

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LAWS-7429 (2) Alternative Dispute Resolution

Examines a variety of dispute resolution processes, such as mediation, arbitration, minitrials, and court-annexed settlement procedures, as alternatives to traditional court adjudication. Credit not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course. Prerequisites: Restricted to Law students only.

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LAWS-7439 (2-3) Mediation

Explores mediation, one of the more important methods of alternative dispute resolution, and the legal issues that may arise related to mediation. Considers what kinds of persons and disputes are most appropriate for mediation. Includes role playing.

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LAWS-7449 (2-4) Juvenile Law Clinic

Examines the world of child welfare from the view of the child client, by representing their best interests in abuse and neglect cases. As Guardians ad litem, students will represent children in abuse and neglect cases from the beginning, at the temporary shelter hearing, through the conclusion of the case at a permanency orders hearing. Prereq., LAWS 6353. May be repeated up to 8 total credit hours.

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LAWS-7509 (1) Mock Trial Competition

Student teams further develop trial and advocacy skills in a competitive mock-trial format involving two or more rounds of trials. Requires preparation of trial briefs and drafting other court pleadings and documents. Credit is limited to the top two teams (six students). Student finalists may continue involvement in regional and national competitions. May be repeated within the term up to 4 total credit hours. Prerequisites: Restricted to Law students only.

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LAWS-7609 (1-2) Law Practice Management

Studies the establishment of a solo or small-firm legal practice. Topics include the business structure (PC, LLC, etc.), office systems, marketing and development, staffing, liability insurance, managing time, technology, and billing. (This practice course counts toward the 14 credit hour maximum of practice hours.) Course supported by the Section of Law Practice Management of the ABA in memory of Harold A. Feder, CU Law '59.

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LAWS-7619 (2) Entrepreneurial Law Clinic

Advise indigent clients who need legal services in the founding of their business or not-for-profit firms, registering LLCs, and drafting employment and intellectual property agreements. Prereq., two of the following courses: Agency Partnership and the LLC, Corporations, Securities, Seminar on Corporate Law, Law and Finance for Entrepreneurs, Accounting Issues for Lawyers, Patent Law, Trademark, and International Business Transactions. Prerequisites: Restricted to Law students only.

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LAWS-7629 (1) Introduction to the In-House Practice of Law

Explores cutting edge questions around the practice of law as an employee of a business. Demonstrates how the combination of law and business can be valuable to businesses and also innovative, challenging and rewarding to legal professionals. Legal services to corporate America is changing dramatically with more entities relying on in-house counsel, compared to private practitioners, to obtain legal advice and counsel. Prerequisites: Restricted to Law students only.

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LAWS-7751 (3) Arbitration

Discusses the nature of arbitration, tactical considerations in whether to use this form or another form of dispute resolution, the drafting of effective contracts to arbitrate the enforceability of these contracts, and the enforcement of arbitration awards. Covers the preclusive effect of arbitration proceedings, multiparty arbitration, and choice of law. Students conduct simulated arbitrations.

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LAWS-7809 (2-4) Technology Law and Policy Clinic

Features technology law advocacy before administrative and legislative bodies. The mission of TLPC is: 1) to train and produce students equipped to conduct thoughtful analysis, and 2) provide unbiased assistance in the public interest concerning technology issues to regulatory entities, courts, legislatures and standard setting bodies. Recommended prereqs., LAWS 6301, 6318 or 7241. LAWS 7809 and TLEN 5250 are the same course.

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LAWS-7939 (1-7) Extern Program

Extern credit may be earned for uncompensated work for a sponsor, which may be any lawyer, judge, or organization that employs lawyers or judges and is approved by the Academic and Student Affairs Committee. Work is done under the direction of a field instructor (a lawyer or judge as the sponsor) and a member of the law faculty. Requires a substantial writing component and 50 hours of working time per credit hour. a minimum of 1 and a maximum of 7 credit hours may be earned. Classified as practice credit. Prerequisites: Restricted to Law students only.

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LAWS-9209 (4) Natural Resources Law Clinic

Engages in litigation and advocacy aimed at protecting the natural resources of the Rocky Mountain region. Students will represent clients in matters involving public lands, wildlife, and other resources. The seminar component will focus on practical aspects of environmental litigation, including administrative practice and decision-making, client representation, citizen suits, and ethical issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Restricted to Law students only. Credit is not given for LAWS 741 and this course. Prerequisites: Restricted to Law students only.

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LAWS-6024 (3) Real Property Security

Examines basic mortgage law, including use of mortgage substitutes (e.g., deeds of trusts and installment land contracts). Covers foreclosure and redemption and related problems; special priority problems in land acquisitions and construction financing; special financing devices, including variable-interest and wraparound mortgages; and problems relating to the transfer of the mortgagor's and mortgagee's respective interests.

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LAWS-6031 (2) Consumer Protection Laws and Policies

Focuses on deceptive trade practices and consumer rights. Reviews the law of deception/misrepresentation at common law, and federal and state laws regarding unfair acts and practices. Covers credit practices, environmental and health claims, and telecommunications and privacy. Discusses remedies, including governmental enforcement actions, and individual and class actions.

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LAWS-6049 (4) Legal Assistance 1: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

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LAWS-6059 (2-3) Legal Aid and Defender

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LAWS-6069 (4) Immigration Clinic

Emphasizes practice skills in immigration cases. Includes litigation before Federal Immigration judges, Board of Immigration Appeals, and Federal Circuit Court of Appeals. Prereq. or coreq., LAWS 6353.

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LAWS-6089 (4) Legal Assistance 2: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

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LAWS-6099 (4) Family Law Clinic

Represents low-income clients in family law cases in local state district court. Students will gain court-based experience in dissolution's and allocations of parental responsibilities. Seminar component includes instruction on substantive family law, related ethical issues, and theoretical backgrounds of poverty lawyering.

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LAWS-6105 (2) Defending Immigrants in Criminal and Immigration Courts

Addresses legal procedures, pleadings and client advocacy matters involved in the representation of Spanish-speaking clients who have been arrested for criminal offenses and who have been issued a detainer by Immigration and Customs Enforcement for possible immigration removal proceedings. Provides overview of criminal defense concepts, and how criminal defense attorneys must be prepared to competently counsel their clients who are facing removal proceedings in the federal immigration system. Prerequisites: Restricted to Law students only.

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LAWS-6513 (2) Crime Victims Rights and Victim Counseling and Advocacy

Involves highly experiential and participatory form of learning related to the rights and needs of victims of crime. Legal and constitutional aspects of crime victims' rights and advocacy are considered. Includes a training component by Moving to End Sexual Assault, a Boulder based organization. After training by MESA, students will complete 120 hours of volunteer service on the MESA hotline as well as attend various meetings. Prerequisites: Restricted to Law students only.

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LAWS-7105 (3) Family Law

Focuses on nature of marriage, actions for annulment and divorce, problems of alimony and property division, separation agreements, and custody of children. Also considers illegitimacy, abortion, contraception, the status of married women in common law and under modern statutes, and relations of parent and child. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Family, Gender, and Health](#)

LAWS-7115 (2) Juvenile Justice

Covers a wide array of issues dealing with the legal rights of the unborn, children, and juveniles. Covers the legal status of parent-child abuse, delinquency and crime, and emancipation.

Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-7135 (3) Parent, Child, and State

Examines the legal rights of parents and children in a constitutional framework, as well as the state's authority to define and regulate the parent-child relationship. Addresses rights of parents and children to freedom of expression and religious exercise, termination of parental rights and adoption, paternity orientation, and culture in defining the family.

Law School Law Family, Gender, and Health

LAWS-7145 (3) Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the US as they affect children, families, and work. Enhances research and writing skills, including field and international research. Contributes to host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-7405 (2-3) Health Law 2: Medical Malpractice and Quality Regulation

Explores (1) the law controlling ethical issues that arise during the delivery of medical care, (2) the substantive law of medical malpractice and tort reform aimed at reducing the frequency and severity of medical malpractice verdicts, and (3) the practical aspects of litigating a medical malpractice case. Cross-listed at the Health Sciences Center; will include field trips there.

Law School Law Family, Gender, and Health

LAWS-7425 (2-3) Health Law

Acquaints students with the issues arising at the interface between law and medicine through analysis of cases and other materials. Critically analyzes methods used by courts and legislatures to address medical/legal problems in an effort to determine whether the legal resolution was reasonable and appropriate in light of medical, social, and political considerations. Offered in alternate years.

Law School Law Family, Gender, and Health

LAWS-7505 (2) Sexuality and the Law

Examines the regulation of sexuality in local, state, and federal law, with particular emphasis on sexual orientation. Explores how sexuality shapes, and is shaped by, an array of laws and policies, which may include family law, military regulations, tax law, employment law, trusts and estates, obscenity law, and criminal law.

Law School Law Family, Gender, and Health

LAWS-7513 (3) Domestic Violence

Explores the law, policy, history, and theory of domestic violence. Examines the limits of legal methods and remedies for holding batterers accountable and keeping victims safe; the dynamics of abusive relationships; the history of the criminal justice system's response to domestic violence; the defenses available to battered persons who kill their abusers; the legal paradigm of the sympathetic victim; psychological and feminist theories about abusive relationships; civil rights and tort liability for batterers and third parties; and the intersection of domestic violence with international human rights.

Law School | Law | Family, Gender, and Health

LAWS-7775 (1) Gender Law and Public Policy

Examines the relationship of law and gender in criminal law, and constitutional law, using feminist theoretical perspectives as the organizing principle. Each perspective is applied to cases and material on such topics as violence against women, prostitution, pornography, and discrimination in education and athletics.

Law School | Law | Family, Gender, and Health

LAWS-8105 (3) Seminar: Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the U.S. as they affect children, families and work. Enhances research and writing skills, including field and international research. Contributes to the host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-8415 (2) Seminar: Bioethics and Law

Focuses on legal, moral, and economic analyses of problems posed or soon to be posed by advances in biomedical technologies.

Law School | Law | Family, Gender, and Health

LAWS-8545 (2) Seminar: Food Law and Policy

Introduces students to the laws and regulations that govern our food supply. The focus is federal law provided by the U.S. Food and Drug Administration, with additional readings, videos and speakers. Topics to be covered include legal definitions for food, rules on food labeling, standards for food safety, biotechnology, international trade, organic and environmental regulation, hunger, farmer's markets and obesity. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-8765 (2) Seminar: Gender, Law, and Public Policy

Examines the relationship of law and gender in criminal law, and constitutional law, using feminist theoretical perspectives as the organizing principle. Each perspective is applied to cases and

materialson such topics as violence against women, prostitution, pornography, and discrimination in education and athletics. Prerequisites: Restricted to Law students only.

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LAWS-6105 (2) Defending Immigrants in Criminal and Immigration Courts

Addresses legal procedures, pleadings and client advocacy matters involved in the representation of Spanish-speaking clients who have been arrested for criminal offenses and who have been issued a detainer by Immigration and Customs Enforcement for possible immigration removal proceedings. Provides overview of criminal defense concepts, and how criminal defense attorneys must be prepared to competently counsel their clients who are facing removal proceedings in the federal immigration system. Prerequisites: Restricted to Law students only.

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LAWS-6117 (3) Survey of Business Enterprise Tax

Makes a comparative survey of federal income taxation of C corporations, S corporations, and partnership/limited liability companies, the principal entity choices for conducting business in the United States. Includes formation, operations, distributions, sales of interests, and liquidation. Suitable for students seeking introductory background for business or real estate practice, without the detail required for a tax specialist. Prereq., LAWS 6007.

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LAWS-6122 (2) International Natural Resources Law and Policy

Examines the suite of policy issues and legal ramifications associated with sustainable natural resource development. Examines most recent research on the "resource curse" theory. Examines recent policy developments and discussions that have occurred among industry, NGOs, multilateral development agencies and governments. Examines issues related to bribery and corruption in developing country environments, and dispute resolution mechanisms at national and local levels. Prerequisites: Restricted to Law students only.

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LAWS-6179 (2) Trial Practice

Students apply the rules and doctrine of evidence in simulated trial settings. Must be taken with the corresponding section of Evidence. Enrollment is to 24. Satisfies the trial practice requirement and counts 2 hours toward the 14 credit hour maximum of clinical hours counted toward graduation. Graded course; not pass/fail.

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LAWS-6301 (3) Introduction to Intellectual Property

Provides an overview of our nation's intellectual property laws, including patents, copyrights, trademarks, and trade secrets. Discusses other matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as TLEN 5245. Prerequisites: Restricted to Law students only.

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LAWS-6321 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Same as TLEN 5255. Prerequisites: Restricted to Law students only.

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LAWS-6331 (1) The Technology of Privacy

Explores the escalating debates by policymakers, scholars, advocates, and industry representatives about the growing spread of tracking and surveillance in society. Debates are being spurred by the pace of changes to technology and particularly of changes to Internet and mobile technology. Practitioners in information privacy law or technology policy must understand the past, present, and likely future of the technology of privacy. Prerequisites: Restricted to Law students only.

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LAWS-7241 (3) Telecommunications Law and Policy

Examines laws governing telecommunications industries, including federal and state regulation and international aspects. Includes telephone, cable, satellite, cellular, and other wireless systems,

and the Internet. Same as TLEN 5240. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7301 (2-3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as TLEN 5265.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7311 (2-3) Patent Law

Covers selected topics, such as patentable subject matter, patentability, and utilization of patent rights through licensing and infringement litigation. Covers practice and procedure of the patent and trademark office.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7321 (1-2) IP and Technology Contracting

Covers transactions, and often high-tech deals involving intellectual property rights. Studies IP ownership; assignment or rights; commercialization transactions (licensing, distribution, strategic); antitrust; and emerging issues. Gives students essential tools to draft and analyze technology contracts. Prereqs., LAWS 6301 or 7301.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7323 (2) Patent Litigation

Focuses on unique aspects of patent litigation: substantive patent law, civil procedure, federal jurisdiction, and litigation strategy; includes claim construction, infringement, anticipation and obviousness defenses, unenforceability challenges, declaratory judgments, injunctions, damages, settlements, licenses, and trial strategy. Of interest and useful to those interested in intellectual property generally, not just patents or in litigation.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7341 (3) Trademark and Unfair Competition Law

Examines trademark protection, the interaction of trademark and unfair competition law with other intellectual property doctrines, the requirements for acquiring and retaining federal trademark rights, false advertising and other misrepresentations, the right of publicity and related claims, remedies for infringement, and international aspects of trademark protection.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7361 (2) Privacy, Security, and Digital Rights Management

Introduces students to the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-7371 (3) Standardization and Standards Wars

Examines current issues in the standardization of telecommunications and information technologies. Covers the importance of standards, government and private sector perspectives, and the impact of information age technologies on standards of development. Emphasizes key national and international organizations.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-8311 (2) Seminar: Computer Crimes

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront with the recent explosion in computer related crime. Includes Fourth Amendment in cyberspace, law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal and state relations in enforcement of computer crime laws, and civil liberties online.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-8321 (2) Seminar: Computers and Law

Explores a range of topics surrounding the juxtaposition of computers and law. Most are aware of the impact that law has on computers through the myriad of regulations that govern computers and related technologies. Less well known is the impact that computer technology is having on governance and on the practice of law. Explores both sides of this dynamic interplay between law impacting computing, and computing impacting law.

Law School | Law | Intell Prop, Tech, and Telecom

LAWS-8361 (2) Seminar: Information Privacy

Explores the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act. Prerequisites: Restricted to Law students only.

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LAWS-6246 (2) Introduction to United States Legal System/Legal Reasoning, Research and Writing

Introduces students without a law degree to the basic structure and content of the United States legal system, examining how the three branches of government at the state and federal levels make law and policy in the United States. The course will provide a basic introductory overview of the following: the various sources of law, including an understanding of how statutes are enacted by legislative institutions; the role of the United States court system in interpreting laws; application of judicial precedent in common-law systems; trial and appellate court procedures; and judicial review standards. The course will also introduce students to the methodology of American law, including legal reasoning, research, and writing, through a variety of in-class and outside research and writing assignments.

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LAWS-6251 (4) Corporations

Covers formation of corporations and their management; relations between shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations.

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LAWS-6301 (3) Introduction to Intellectual Property

Provides an overview of our nation's intellectual property laws, including patents, copyrights, trademarks, and trade secrets. Discusses other matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as TLEN 5245. Prerequisites: Restricted to Law students only.

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LAWS-6311 (1) National Security and Privacy Law

Introduces national security and privacy law and relevant law, regulations, rules, policies, and guidelines.

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LAWS-6321 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Same as TLEN 5255. Prerequisites: Restricted to Law students only.

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LAWS-6331 (1) The Technology of Privacy

Explores the escalating debates by policymakers, scholars, advocates, and industry representatives about the growing spread of tracking and surveillance in society. Debates are being spurred by the pace of changes to technology and particularly of changes to Internet and mobile technology. Practitioners in information privacy law or technology policy must understand the past, present, and likely future of the technology of privacy. Prerequisites: Restricted to Law students only.

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LAWS-6363 (5) Evidence and Trial Practice

Studies methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Applies rules and doctrine of evidence in simulated trial settings. Combined Evidence and Trial Practice course. Satisfies the trial practice requirement and counts two hours toward the 14 credit hour maximum in clinical hours.

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LAWS-6415 (2-3) Drug Product Liability Litigation: Principles and Practice

Explores product liability lawsuits and litigation. Explores law of product liability and the tools necessary to successfully litigate these cases. Considers the theory and practice of lawsuits now and after the Supreme Courts landmark decision in Wyeth v. Levine (2009). Focuses on similarities and differences between the special context of FDA regulation. Considers the legal principles governing such lawsuits such as inadequate warning, the Learned intermediary Doctrine and medical causation.

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LAWS-6501 (2-3) The Practice of Labor and Employment Law

Focuses on aspects of the practice of employment law, rather than the examination of legal doctrines. Discusses typical issues presented in advising and litigating on behalf of employers and employees. Topics include special attention to ethical issues.

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LAWS-6513 (2) Crime Victims Rights and Victim Counseling and Advocacy

Involves highly experiential and participatory form of learning related to the rights and needs of victims of crime. Legal and constitutional aspects of crime victims' rights and advocacy are considered. Includes a training component by Moving to End Sexual Assault, a Boulder based organization. After training by MESA, students will complete 120 hours of volunteer service on the MESA hotline as well as attend various meetings. Prerequisites: Restricted to Law students only.

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LAWS-6601 (3) Corporate Transactions in Latin America

Introduces students to an overview of Latin American commercial and civil law systems, looking closely at Napoleonic and Chilean law. Explores the choice legal structures available for Latin American corporations; contract law that regulates business transactions in Latin America; and exploration of the way in which Latin American countries have joined international business trade agreements that pertain to Latin American nations such as the Vienna Convention and Gatt.

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LAWS-7005 (3) Media Law

Surveys common, statutory, and regulatory law as applied to the mass media. Focuses on the law as it affects the gathering and publishing of news. Also examines the regulation of the electronic media.

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LAWS-7079 (2) Wrongful Convictions

Focuses on the issues and remedies in cases of people who have been convicted, whose traditional appellate remedies have been exhausted, and who continue to claim actual innocence. Preference given to those who have taken or are taking more criminal procedure courses.

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LAWS-7095 (2) Women in Law

Explores the role of women in the legal system by looking at women as parties, jurors, witnesses, lawyers, law professors, and judges. Explores the relationship of law and society to women as victims and offenders. Investigates law and society's response to adoption, lesbian/gay issues, rape, surrogate and bad mothers, and sexual harassment.

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LAWS-7105 (3) Family Law

Focuses on nature of marriage, actions for annulment and divorce, problems of alimony and property division, separation agreements, and custody of children. Also considers illegitimacy, abortion, contraception, the status of married women in common law and under modern statutes, and relations of parent and child. Prerequisites: Restricted to Law students only.

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LAWS-7115 (2) Juvenile Justice

Covers a wide array of issues dealing with the legal rights of the unborn, children, and juveniles. Covers the legal status of parent-child abuse, delinquency and crime, and emancipation.

Prerequisites: Restricted to Law students only.

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LAWS-7116 (1) Barristers Council

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LAWS-7125 (2) Advanced Domestic Relations

Offers advanced study of several domestic relations subjects, including both theoretical and lawyering issues. Tentative subjects include discovery, client interviewing and deposition preparation, asset valuation, working with expert witnesses, children as clients, and alternative dispute resolution. Recommended prereq., LAWS 7105.

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LAWS-7135 (3) Parent, Child, and State

Examines the legal rights of parents and children in a constitutional framework, as well as the state's authority to define and regulate the parent-child relationship. Addresses rights of parents and children to freedom of expression and religious exercise, termination of parental rights and adoption, paternity orientation, and culture in defining the family.

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LAWS-7145 (3) Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the US as they affect children, families, and work. Enhances research and writing skills, including field and international research. Contributes to host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

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LAWS-7200 (3) Anthropology of Law

Reviews the relationship between the social and cultural features of both developed and developing country societies and the formal and informal legal institutions within them. Considers the nature of social control and constraint, judicial reasoning, fact finding, conciliation, mediation and arbitration, and legal discourse.

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LAWS-7775 (1) Gender Law and Public Policy

Examines the relationship of law and gender in criminal law, and constitutional law, using feminist theoretical perspectives as the organizing principle. Each perspective is applied to cases and material on such topics as violence against women, prostitution, pornography, and discrimination in education and athletics.

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LAWS-7809 (2-4) Technology Law and Policy Clinic

Features technology law advocacy before administrative and legislative bodies. The mission of TLPC is: 1) to train and produce students equipped to conduct thoughtful analysis, and 2) provide unbiased assistance in the public interest concerning technology issues to regulatory entities, courts, legislatures and standard setting bodies. Recommended prereqs., LAWS 6301, 6318 or 7241. LAWS 7809 and TLEN 5250 are the same course.

[Law School](#) | [Law](#) | [Practice: Clinical & Simulation](#)

LAWS-7846 (1-3) Independent Legal Research

Involves independent study and preparation of a research paper under faculty supervision. Students produce a research paper equivalent to a seminar research paper. A draft is submitted, subjected to critique by the faculty member, and redrafted. Available during or after the fifth semester of law school. Prereq., instructor consent. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Research and Writing](#)

LAWS-7896 (1) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7906 (2) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7916 (1) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7926 (2) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7936 (1) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7939 (1-7) Extern Program

Extern credit may be earned for uncompensated work for a sponsor, which may be any lawyer, judge, or organization that employs lawyers or judges and is approved by the Academic and Student Affairs Committee. Work is done under the direction of a field instructor (a lawyer or judge as the sponsor) and a member of the law faculty. Requires a substantial writing component and 50 hours of working time per credit hour. a minimum of 1 and a maximum of 7 credit hours may be earned. Classified as practice credit. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7946 (2) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-8005 (2) Seminar: Advanced Constitutional Law Equality and Privacy

Addresses "Equal Protection" rights under the Fourteenth Amendment and "Privacy" rights to personal autonomy. Analyzes varied constitutional grounds for recognizing or rejecting abortion rights; limits on Congressional power to pass civil rights laws granting broader rights than the Fourteenth Amendment does; treatment of sexual orientation-related laws and government actions as "Privacy" versus "Equality" matters; and "Benign"/"remedial" race- and sex-based government decisions such as affirmative action and same-sex schools.

Law School | Law | Government and Public

LAWS-8011 (1-3) Seminar: Humanizing Contracts: Service Learning

Examines contract theory and policy, while providing community-based service. Students analyze and discuss readings exploring doctrinal and theoretical bases of contract law, and see "Contracts in action" through participating in a service project. Requires a final paper linking theory and doctrine with service experiences. Note: this is a year-long seminar (2 credits per semester); students must enroll in both semesters but receive only one grade at the end of the year. Students participate in a service project that may include off-campus and weekend participation.

Law School | Law

LAWS-8013 (2) Seminar: Habeas Corpus: The Great Writ of Liberty

Includes readings on the history of the writ, its constitutional status, and its use as a civil rights remedy, as well as case studies of important Supreme Court decisions, and a review of contemporary jurisdictional and procedural issues.

Law School | Law

LAWS-8015 (1-3) Seminar: Constitutional Theory

Examines the role of the courts and the other branches of government in defining and enforcing constitutional values. Relevant readings are from philosophy, social sciences, and legal scholarship, as well as cases. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-8021 (3) Seminar: Consumer Empowerment

Considers contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, and critical legal studies. Explores and questions tensions among theories, focusing on how they interact with norms, goals, and functions of contract and consumer protection law. Observes these tensions "In action" through volunteer work with Heritage House, a home for young women who are "At risk" and cannot live with their families at this time for different reasons.

Law School | Law | Business

LAWS-8025 (2) Seminar: Advanced Topics in Federalism

Explores the development of "Our Federalism", the relationship between federal and state governments, from the founding period of the US Supreme Court's recent New Federalism jurisprudence. Studies historical material, commentary, and case law, and addresses how federalism is defined; the values that federalism serves; the role of federalism in our interconnected, global society; the Supreme Court's boundaries of federalism; the direction of New Federalism.

Law School | Law | Government and Public

LAWS-8035 (2) Seminar: Intersection of Antidiscrimination and First Amendment Law

Addresses past and continuing debates involving potential tensions between antidiscrimination principles and free speech, free exercise, and establishment clause values. Examines constitutional protections under the First Amendment and the equal protection clause, together with an array of existing and proposed federal and state antidiscrimination laws regulating employment, housing, and public accommodations, among other areas.

Law School | Law | Government and Public

LAWS-8045 (2) Seminar: Comparative Constitutional Law

Examines legal structures and concepts typically found in constitutions, including judicial review, distinction between legislative and executive authority, federalism and the principle of subsidiarity, the relationship between church and state, free speech and press, and social welfare rights. Examines differences between constitutional law and other domestic law, role of comparative constitutional law in domestic constitutional law adjudication. Emphasizes American and Swedish perspectives.

Law School | Law | Government and Public

LAWS-8055 (1-2) Seminar: Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this seminar: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? This is a year-long seminar.

Law School | Law | Government and Public

LAWS-8075 (2) Seminar: Race, Racism, and American Law

Focuses on issues of race reform law, in particular the group of issues dealing with Black Americans. (Students of all hues and persuasions are welcome.) Offers an interpretive or critical dimension, rather than a litigation-oriented one. Helps students understand how race reform law works and how attitudes and historical forces have shaped that body of law.

Law School | Law

LAWS-8095 (2) Seminar: Problems in Constitutional Law

Explores how theories of social freedom and self-governance developed in the United States. Analyzes the most controversial socio-legal issues as they relate to privacy, equal protection and other questions of substantive due process. Discusses recent trends in national security and information privacy to evaluate their overall relevance to civil liberties and nascent influence on the fundamental rights debate in the US and abroad.

Law School | Law | Government and Public

LAWS-8101 (3) Business Law Colloquium

Business law scholars from CU and around the country present research papers at this weekly colloquium. Topics may include contracts, corporate law, securities regulation, tax, intellectual property, venture capital and private equity, and the legal profession. No prior knowledge of law and economics is expected, although some knowledge of business organizations will be useful. Prereq., LAWS 6211 or 6201. Prerequisites: Restricted to Law students only.

Law School | Law | Business

LAWS-8103 (2) Seminar: Alternative Dispute Resolution Ethics

Explores the ethics of mediators and other alternative dispute resolvers and facilitators, of attorneys representing clients in alternative dispute resolution processes, and of judges serving in alternative roles. Issues include confidentiality, providing appropriate notice to those concerned, and avoidance of conflicts of interest.

Law School | Law

LAWS-8104 (2) Seminar: Cities, Suburbs, and the Law

Explores dynamics that play out in the relationship between cities, suburbs, exurbs and other patterns of urban development. Explores the nature of local power, relations between local jurisdictions, and metropolitan and regional approaches to governance. Includes fiscal disparities, ethnic and racial segregation, sprawl and growth controls, affordable housing, transportation, and the urban/rural divide.

Law School | Law | Property

LAWS-8105 (3) Seminar: Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the U.S. as they affect children, families and work. Enhances research and writing skills, including field and international research. Contributes to the host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

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LAWS-7228 (2) Intellectual Origins of the Constitution

Examines the views of the Constitution's framers as expressed in contemporaneous and antecedent writings and debates. Offered in alternate years.

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LAWS-7241 (3) Telecommunications Law and Policy

Examines laws governing telecommunications industries, including federal and state regulation and international aspects. Includes telephone, cable, satellite, cellular, and other wireless systems, and the Internet. Same as TLEN 5240. Prerequisites: Restricted to Law students only.

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LAWS-7248 (3) History of Criminal Justice

Explores the social, cultural, and legal history of Anglo-American criminal justice from the 17th to the 20th centuries. Also examines tensions between various methods that historians employ to study crime and law.

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LAWS-7251 (3) Non-Profit Law

Examines the creation of a non-profit organization, in particular whether to choose a trust or a corporate form, how to qualify for federal tax exemption, and differences between private foundations and public charities. Examines fiduciary duty issues, restrictions on political activity and private benefit, and unrelated business income tax. Addresses tax incentives for charitable giving and state fundraising laws.

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LAWS-7300 (2-3) International Litigation

Examines the special issues that arise in litigation in U.S. courts when one or more of the parties is a foreign individual, corporation, or government, or when the subject of the litigation concerns events occurring wholly or partly outside of this country. Includes personal jurisdiction over foreign defendants, extraterritorial service of process and evidence gathering, choice of forum, foreign sovereign immunity, the act of state doctrine, extraterritorial application of U.S. law, and recognition of enforcement of foreign judgments.

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LAWS-7301 (2-3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as TLEN 5265.

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LAWS-7307 (3) Taxation of Natural Resources

Considers the federal income tax aspects applicable to the exploration for, the development of, and the operation of natural resources, as well as the financing thereof. Also considers oil and gas, hard minerals, timber, and water. Offered in alternate years. Recommended prereq., LAWS 6007.

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LAWS-7311 (2-3) Patent Law

Covers selected topics, such as patentable subject matter, patentability, and utilization of patent rights through licensing and infringement litigation. Covers practice and procedure of the patent and trademark office.

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LAWS-8112 (2-3) Seminar: Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip, and requires additional field trip expenses.

LAWS 6112 is strongly recommended as a prerequisite, however students must have taken or be concurrently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. May be repeated up to 6 total credit hours.

[Law School](#)
[Law](#)
[Envir, Nat Resources, Amer Ind](#)

LAWS-8115 (2) Seminar: Child Abuse and the Law

Explores legal responses to child abuse by examining the constitutional framework for legal proceedings, effective strategies for preventing child abuse and punishing offenders, alternatives to the current system, and cultural aspects of child abuse and the legal response to it. Examines physical abuse and neglect, and focuses on sexual abuse.

[Law School](#)
[Law](#)

LAWS-8122 (2) Seminar: Mineral Development

Deals with legal and policy issues surrounding mineral development and its environmental impacts. Emphasizes the problems associated with hard rock minerals and coal development, with some treatment of oil and gas leasing and development issues. Focuses on western public lands with some discussion of international and private lands issues.

[Law School](#)
[Law](#)

LAWS-8125 (2) Seminar: Law and the Politics of Family Law

Examines issues that have been raised under the United States Constitution with respect to state regulation of families. Topics include questions of family and individual privacy, the status of children, procreation, marriage and divorce, the definition of family relationships, and problems of federalism and the role of the Supreme Court in the regulation of families.

Law School | Law

LAWS-8128 (2-3) Jurisprudence

Same as LAWS 7128.

Law School | Law

LAWS-8135 (2) Seminar: Gender, Work, and Family

Explores the social and legal problems that develop at the intersection of work and family, and considers legal/non-legal solutions that have been and could be used to accommodate both women and men in their efforts to deal with these problems.

Law School | Law

LAWS-8138 (2) Seminar: The Rhetoric of Law

Considers how Anglo-American law operates rhetorically, how it persuades, builds character, offers proof, approximates the truth, establishes legitimacy, and makes things happen. It will also explore the ethics of rhetoric and note the relationship of rhetoric to other bodies of legal scholarship (e.g., law and literature, legal pragmatism, law and culture). It will hone student advocacy skills, prepare students to anticipate and defend against the rhetorical stratagems of different legal actors, and enrich students' sense of professional identity. Restricted to LAWS students.

Prerequisites: Restricted to Law students only.

Law School | Law

LAWS-8154 (2) Seminar: Land Use Planning

Discusses public control of private land uses through planning, zoning, and regulation of land development, including consideration of constitutional and statutory limitations on legislatively created techniques. Offered in alternate years.

Law School | Law

LAWS-8202 (2) Seminar: Environmental Policy

Examines issues of environmental justice, including the disparate impacts of pollution and land use controls on certain communities and ethnic groups. Topics may include concentration of waste facilities in neighborhoods occupied by poor and minority populations, adequate protection of migrant farmworkers from the impacts of pesticide hazards, and environmental controls that inhibit economic growth and development sought by Indian tribes.

[Law School](#) [Law](#)

LAWS-8205 (3) Seminar: Law and Democratic Governance

Explores cutting-edge debates in election law. Studies different perspectives on the current controversies in the field, in addition to select opportunities to engage scholars directly about their work. Develops students' understanding of the law of democracy, exposing students to some of the best scholarship, and improving students' ability to evaluate and critique legal scholarship.

Recommended prereq., LAWS 7325. Same as PSI 7171. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Government and Public](#)

LAWS-8210 (2) Seminar: Comparative Law

Studies discrete topics in Jewish law such as family law, commercial law, criminal law, etc., using the text Jewish Law: Cases and Materials, and other sources such as guest lectures. The collection of books that we received from the Touro Law Center will provide a valuable resource for student research.

[Law School](#) [Law](#)

LAWS-8212 (2) Seminar: Environmental Law Practice and Policy

Focuses on the translation of environmental policies and purposes into environmental law and practice. Investigates policy issues on prevention of significant deterioration of air quality (PSD), the particulate matter national ambient air quality standard (PM NAAQS), and global climate changes. Emphasizes legal structure issues, including the role of national, state, and local governments in implementing environmental law and policy as well as counterpart global structures and mechanisms for responding to global or transboundary environmental problems. Prereq., LAWS 7202.

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LAWS-8222 (2) Seminar: Environmental Philosophy and Law

Investigates the changing philosophical underpinnings of U.S. environmental law and policy and how philosophy and legal institutions interact.

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LAWS-8251 (2) Seminar: Advanced Corporate Law

Explores current issues in corporate and securities law, including developments in fiduciary duties of officers and directors, corporate governance, executive compensation, revisions to the model business corporation act, and state and federal litigation reform.

[Law School](#) [Law](#)

LAWS-8285 (2-3) Seminar: Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply, and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers, and provides an opportunity to grow as colleagues and teammates. Requires extra time outside of class. Recommended prereq., LAWS 7055. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-8300 (3) Seminar: International Adjudication

Focuses on writing briefs and memoranda of law suitable for practice before tribunals such as the International Courts of Justice. Emphasis will be on students writing, legal analysis, and presentation of oral arguments. Instruction identifies how to research and analyze international materials, such as treaties, covenants, and international customary law.

Law School | Law

LAWS-8301 (2) Seminar: Innovation, Network Theory, Social Entrepreneurship

Covers topics related to the legal and public policy implications of innovation, entrepreneurship, and social networks including normative ideals of entrepreneurship, the concept of regional advantage, whether startups should be subsidized and the design of such subsidies, the role of universities in commercializing ideas, impact of the tax code on entrepreneurship, the role of corporate responsibility in startups, and more.

Law School | Law

LAWS-8302 (2) Seminar: Advanced Problems in Water Resources Law

Explores the use of watersheds as geographic and political entities for addressing water-related issues and how laws and institutions facilitate or impede watershed-based problem solving.

Law School | Law

LAWS-8310 (2) Seminar: International Crimes Punishment

Addresses issues in international criminal law in three parts: 1) basic contents of international law, 2) international criminal tribunals that enforce international criminal law, and 3) national efforts to bring international criminal prosecutions. Recommended prereqs., LAWS 6400 and 7440. Prerequisites: Restricted to Law students only.

Law School | Law | International

LAWS-8311 (2) Seminar: Computer Crimes

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront with the recent explosion in computer related crime. Includes Fourth Amendment in cyberspace, law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal and state relations in enforcement of computer crime laws, and civil liberties online.

Law School Law Intell Prop, Tech, and Telecom

LAWS-8315 (2) Seminar: Advanced Criminal Justice

Studies policy and practice issues rather than case law. Focuses primarily on how American criminal justice is dispensed in cases that do not reach trial, including police behavior, prosecutorial discretion, defense services, bail, plea bargaining, and sentencing.

Law School Law

LAWS-8318 (2) Seminar: Law and Economics

Introduces the uses and limitations of microeconomic theory for understanding and resolving legal problems. Emphasizes concepts prominent in the law and economics literature such as cost, transaction costs, utility, and rational self interest.

Law School Law Jurisprudence and Perspective

LAWS-8320 (2) Seminar: Oil and International Relations

Addresses the extent to which the international community of nations is oil dependent. Assesses the impact and the geopolitical dangers to international relations arising from the expanding demand for scarce oil from developing, as well as developed, economies.

Law School Law International

LAWS-8321 (2) Seminar: Computers and Law

Explores a range of topics surrounding the juxtaposition of computers and law. Most are aware of the impact that law has on computers through the myriad of regulations that govern computers and related technologies. Less well known is the impact that computer technology is having on governance and on the practice of law. Explores both sides of this dynamic interplay between law impacting computing, and computing impacting law.

Law School Law Intell Prop, Tech, and Telecom

LAWS-8325 (2) Seminar: Reforming Criminal Trials

Starts from the premise that reform of our criminal trial system to make it less complicated, less expensive, and more reliable should be considered. Examines trial systems in other countries and U.S. changes over recent decades. Student papers make and defend proposals for reform.

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LAWS-7321 (1-2) IP and Technology Contracting

Covers transactions, and often high-tech deals involving intellectual property rights. Studies IP ownership; assignment or rights; commercialization transactions (licensing, distribution, strategic); antitrust; and emerging issues. Gives students essential tools to draft and analyze technology contracts. Prereqs., LAWS 6301 or 7301.

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LAWS-7323 (2) Patent Litigation

Focuses on unique aspects of patent litigation: substantive patent law, civil procedure, federal jurisdiction, and litigation strategy; includes claim construction, infringement, anticipation and obviousness defenses, unenforceability challenges, declaratory judgments, injunctions, damages, settlements, licenses, and trial strategy. Of interest and useful to those interested in intellectual property generally, not just patents or in litigation.

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LAWS-7335 (1) The Law of Presidential Elections

Examines the laws and regulations that uniquely shape presidential selection, analyzing practical applications as well as the broader constitutional and policy considerations. A combination of federal, state, and local laws shapes how Americans select their president. But more than ever before, Americans are questioning the rules that influence presidential selection, such as the major party primary system, ballot access, presidential campaign financing, and the electoral college.

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LAWS-7341 (3) Trademark and Unfair Competition Law

Examines trademark protection, the interaction of trademark and unfair competition law with other intellectual property doctrines, the requirements for acquiring and retaining federal trademark rights, false advertising and other misrepresentations, the right of publicity and related claims, remedies for infringement, and international aspects of trademark protection.

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LAWS-7361 (2) Privacy, Security, and Digital Rights Management

Introduces students to the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act.

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LAWS-7371 (3) Standardization and Standards Wars

Examines current issues in the standardization of telecommunications and information technologies. Covers the importance of standards, government and private sector perspectives, and the impact of information age technologies on standards of development. Emphasizes key national and international organizations.

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LAWS-7375 (3) U.S. Races and Justice Systems

Examines the unique but related legal, social, and economic problems and accomplishments of those persons in this country whose ancestry originated in Africa, Asia, Latin America, or North America, and explores the developing literature on whites and whiteness.

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LAWS-7381 (3) Intellectual Property Counseling and Prosecution

Introduces strategic development and procurement of IP, including patents, trademarks, copyrights, and trade secrets. Evaluates the latest cases and legal trends from a practical and strategic perspective. Focuses on widely accepted best practices and critical thinking in these areas. Prerequisites: Restricted to Law students only.

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LAWS-7401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes.

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LAWS-7405 (2-3) Health Law 2: Medical Malpractice and Quality Regulation

Explores (1) the law controlling ethical issues that arise during the delivery of medical care, (2) the substantive law of medical malpractice and tort reform aimed at reducing the frequency and severity of medical malpractice verdicts, and (3) the practical aspects of litigating a medical malpractice case. Cross-listed at the Health Sciences Center; will include field trips there.

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LAWS-7411 (2-3) Mergers, Acquisitions, and Reorganizations

Studies the planning of corporate mergers, acquisitions, and reorganizations, examining the application and integration of state corporate law, federal securities law, accounting principles, tax law, labor law, products liability law, environmental law, ERISA, and antitrust law.

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LAWS-7420 (2) European Union Law

Covers all the essential aspects of the EU law: EU institutions, competences, the making and the application of EU law, and the content of the fundamental principles of EU law and the common market.

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LAWS-7425 (2-3) Health Law

Acquaints students with the issues arising at the interface between law and medicine through analysis of cases and other materials. Critically analyzes methods used by courts and legislatures to address medical/legal problems in an effort to determine whether the legal resolution was reasonable and appropriate in light of medical, social, and political considerations. Offered in alternate years.

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LAWS-7428 (3) Bioethics Law and Literature

Interdisciplinary study of law, medicine, and bioethics. Addresses such issues as confidentiality in medical treatment, rejecting life-sustaining treatment, death and dying, reproductive law and genetic technology, human experimentation, and access to health care.

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LAWS-8335 (2) Seminar: Advanced Criminal Procedure

Focuses on a particular topic in criminal procedure. Topics include the privilege against self-incrimination, juries, and defense and prosecution ethics.

[Law School](#) [Law](#) [Litigation and Procedure](#)

LAWS-8341 (3) Seminar: Law and Economics of the Information Age

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Prereq., LAWS 7201, 7241, or 7301. Same as TLEN 5260.

[Law School](#) [Law](#)

LAWS-8351 (2) Seminar: Law and Economics of Utility Regulation

Discusses economics of regulation and matters ranging from neoclassical economic analysis to public choice theory to new institutional economics. Discusses several regulatory domains, including antitrust law, telecommunications regulation, and energy regulation. Highlights both economic and non-economic goals, including universal service, sustainability (e.g., renewable energy), and architecture (e.g., free speech concerns with regard to telecommunications networks). Prereqs., LAWS 6301 or 7201 or 7241 or TLEN 5835. Restricted to Law and TLEN students.

[Law School](#) [Law](#) [Business](#)

LAWS-8355 (2) Seminar: Sentencing Law and Policy

Studies sentencing law against the backdrop of criminal justice policy and concerns of public policy. Covers theories of punishment, the merits of indeterminate sentencing, sentencing guidelines, and nonincarcerative sanctions. Confronts problems of race, class, and other disparities in criminal sentencing.

Law School Law

LAWS-8361 (2) Seminar: Information Privacy

Explores the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-8375 (2) Seminar: Advanced Immigration and Citizenship

Explores the law and policy of citizenship in the United States, starting with legal questions regarding acquisition and loss of citizenship as well as the consequences of citizenship, but also examines the fundamental premises underlying American citizenship and the concept of citizenship generally.

Law School Law

LAWS-8395 (2) Seminar: Separation of Powers

Explores the constitutional relationships among the three branches of the federal government in the sphere of domestic matters, omitting foreign affairs and war. Develops topics including executive orders, Congressional control of the executive and the courts, appointment and removal of officers, impeachment, executive privilege, use of military tribunals, and the election of 2000. a seminar paper will be required.

Law School Law Government and Public

LAWS-8401 (2) Seminar: Securities Litigation and Enforcement

Designed for students interested in studying topics related to securities litigation. Covers civil liability under the Securities Act of 1933, proxy fraud, class actions (with special emphasis on the Private Securities Litigation Reform Act and the Securities Litigation Uniform Standards Act), market manipulation, SEC enforcement actions, enforcement issues involving attorneys and accountants, criminal enforcement, international securities fraud, and securities arbitration.

Law School Law Business

LAWS-8405 (2) Seminar: Public Health Law and Ethics

Explores rules of law pertaining to the American public health care system and the ethical issues raised by the government's effort to protect the health of the American people. To be held at Health Sciences Campus.

Law School | Law | Government and Public

LAWS-8407 (2) Seminar: Tax Policy

Explores current issues in tax policy. Topics may include the tax legislative process, consumption taxes, taxes and distributive justice, the tax exemption for nonprofits, carbon taxes, corporate taxes and integration, and taxes and entrepreneurship. Prereqs., Federal Income Tax and LAWS 6109. Prerequisites: Restricted to Law students only.

Law School | Law | Taxation

LAWS-8409 (2) Seminar Special Problems in Conflict Resolution and Management

Develops a comprehensive description of dispute; creates a conflict assessment of the stakeholders in and dynamics of dispute; assess obstacles to and opportunities for mediation; recommend strategy for addressing and managing the dispute. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-8415 (2) Seminar: Bioethics and Law

Focuses on legal, moral, and economic analyses of problems posed or soon to be posed by advances in biomedical technologies.

Law School | Law | Family, Gender, and Health

LAWS-8421 (2) Seminar: Duties of the Professional Advisor

Studies ethical and legal regulation of lawyers, auditors, and investment bankers, who have been described as "Gatekeepers" to the investment markets. Considers changes in ethical and legal regulation that can be adopted to restore a sense of integrity for these professionals.

Law School | Law

LAWS-8425 (2) Seminar: Advanced Torts

Explores how dignitary interests have influenced the development of and have been incorporated into law, using the common law of torts and the constitutional rights of life and liberty as a general (but not exclusive) focal point of discussion.

Law School | Law

LAWS-8428 (2) Seminar: Women in Law and Literature

Considers both legal and literary depictions of women and their legal and extralegal situations. Topics may include women as mothers, women as sexual beings, women's silence, women's

violence and women as criminals, women at work, and women as the "Other" in law and literature.

Law School Law

LAWS-8430 (2) Seminar: Comparative Public Health Law and Ethics

Compares public health law systems to those in other countries. Studies the goals, legal structures, and services provided, together with such issues of coercion as quarantines, monitoring, mandates and prohibitions, and forcing pharmaceutical companies to make available inexpensive generic drugs.

Law School Law International

LAWS-8440 (2) Seminar: International Human Rights

Investigates the sources of international human rights law and issues of jurisdiction to prescribe, adjudicate, and enforce norms. Students study treaties and reservations, customary law, declarations, resolutions, and the U.S. courts' and activists' use of materials. Topics include sovereignty and self-determination, culture, privacy, right to equality, language and speech rights, right to development, immigration, workers and globalization, and citizenship.

Law School Law

LAWS-8450 (2) Seminar: Law and Economic Development

Explores past and present debates over the role of the legal order in economic development. Studies the relationships among economic ideas, legal ideas and the development policies pursued at the national and international level in successive historical periods, beginning in the Seventeenth Century to the present. Focuses on the potential for an alliance of various traditions from economics, law and other disciplines to understand development.

Law School Law

LAWS-8458 (2) Seminar: Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final paper will be required.

Law School Law Research and Writing

LAWS-8505 (2) Sem Interdisciplinary Perspectives on Law and Social Change

Introduces legal institutions engaged in social change, from courts, to Congress, to bureaucracies and organizations. Posits tension between tasks of dispute resolution and public policy development and institutional adaptations. Considers the role of public opinion and the classics of legal formalism to more critical accounts. Considers postmodern theory and empirical legal scholarship. Presents alternatives to court-centered approaches to change, including community lawyering and organizing, law and social movements, and legislation. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-8508 (2) Seminar: Constitutional Foundations Core Ideas

Focuses on core ideas in U.S. constitutional law, such as means/ends analysis, institutional competence, rights definitions, and juridical techniques for limiting governmental powers. Draws from historical writings, contemporary press accounts, learned treatises, oral arguments, law review articles, and key judicial opinions such as *McCullough v. Maryland*, *Lochner v. New York*, *Brown v. Board of Education*.

Law School Law Government and Public

LAWS-8511 (2) Seminar: Wal-Mart

Examines issues raised by Wal-Mart's size, power, and business model. Considered issues bring numerous areas of law into play, including employment and labor law, social welfare legislation, class actions, antitrust, zoning, international labor and human rights regulation, and international trade. The course will show how different areas of the law are integrated in practice.

Law School Law

LAWS-8515 (2) Seminar: Forced Labor

Reviews several regimes of compulsory labor that have been central to the American experience: Black chattel slavery in the antebellum South; debt peonage, criminal surety, and related institutions of agricultural involuntary servitude; convict leasing and other forms of compulsory inmate labor; "White slavery" and prostitution; and forced labor among immigrants. Emphasizes the complicated role that the law has played, and in some respects continues to play, in both supporting and undermining such institutions.

Law School Law Government and Public

LAWS-8521 (2) Seminar: Comparative Labor Law

Explores the laws and economic transformations that affect labor relations on a global scale.

Law School Law Business

LAWS-8531 (2) Seminar: Labor and Employment in Transportation

Explores legal, social, and economic issues arising from labor relations in the industries transporting goods and people by road, rail, air, and water, among the most critical sectors of the economy.

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LAWS-7451 (3) Law and Finance for Entrepreneurs

Studies unique legal problems faced by entrepreneurs, including formation issues (choice of entity, rights of the founders, initial investors), operation issues (governance, key employees, intellectual property, financing), IPOs, and buy-outs.

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LAWS-7458 (2) Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final eight page paper are required.

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LAWS-7505 (2) Sexuality and the Law

Examines the regulation of sexuality in local, state, and federal law, with particular emphasis on sexual orientation. Explores how sexuality shapes, and is shaped by, an array of laws and policies, which may include family law, military regulations, tax law, employment law, trusts and estates, obscenity law, and criminal law.

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LAWS-7507 (2-3) State and Local Taxation

Examines the operation of the income, property and sales tax used to finance our state and local governments. Includes requirements of equal protection and due process. Covers jurisdiction to tax allocation of the tax base among different state and local governments. Same as ACCT 6760.

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LAWS-7513 (3) Domestic Violence

Explores the law, policy, history, and theory of domestic violence. Examines the limits of legal methods and remedies for holding batterers accountable and keeping victims safe; the dynamics of abusive relationships; the history of the criminal justice system's response to domestic violence; the defenses available to battered persons who kill their abusers; the legal paradigm of the sympathetic victim; psychological and feminist theories about abusive relationships; civil rights and tort liability for batterers and third parties; and the intersection of domestic violence with international human rights.

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LAWS-7523 (2) Juvenile Law

Takes a critical look at the juvenile justice system and how it responds to the needs of juveniles who are either delinquents and/or victims of abuse. Issues include the rights and responsibility of parents, parental responsibility programs, delinquents, and the future of our juvenile courts.

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LAWS-7529 (1) Appellate Advocacy Competition

Gives students the opportunity to participate in an intermural appellate advocacy competition, in which a brief must be filed and reviewed, critiqued, and deemed credit-worthy by a member of the faculty. (Law School Rule 3-2-9 (b) should be consulted prior to enrollment.)

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LAWS-7541 (2-3) Employment Discrimination

Examines statutory and constitutional prohibitions of discrimination in employment on the basis of race, gender, age, religion, national origin, and disability.

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LAWS-7601 (2-3) Business Transactions

Provides a practical understanding of how to apply the law in both transactional and litigation settings. Gives an interdisciplinary look at how various areas of the law are brought together in common factual settings. Teaches students to negotiate, document, and close the acquisition of a business covering the areas of practice of corporate, contracts, real property, secured transactions, and bankruptcy law. Tests, in a litigation setting, the decisions made during the acquisition stage.

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Courses

Search by College, Department & Category

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Category

Search by Course Number

Subject

Number

LAWS-8533 (2) Seminar: Criminal Law in Context: Legal and Social Images of Victims and Perpetrators

Contextualizes criminal law by engaging in an in depth study of the legal and social characterizations of victims and perpetrators in U.S. law, politics, and popular culture. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Litigation and Procedure](#)

LAWS-8535 (2) Seminar: Class and Law

Explores issues relating social class to such areas as labor relations, law enforcement, controls on radical movements, and the distribution of wealth and power. Considers problems defining social class.

[Law School](#)
[Law](#)
[Government and Public](#)

LAWS-8538 (2) Seminar: Modern Legal Theory Core Ideas

Explores key ideas that have shaped American law and legal thought, such as Holmes' bad man, the Coase Theorem, the "Hunch" theory of law, and others. Focuses on researching and writing many short papers.

[Law School](#)
[Law](#)
[Jurisprudence and Perspective](#)

LAWS-8545 (2) Seminar: Food Law and Policy

Introduces students to the laws and regulations that govern our food supply. The focus is federal law provided by the U.S. Food and Drug Administration, with additional readings, videos and

speakers. Topics to be covered include legal definitions for food, rules on food labeling, standards for food safety, biotechnology, international trade, organic and environmental regulation, hunger, farmer's markets and obesity. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-8548 (2) Seminar: Theory of Punishment

Explores the various justifications that philosophers have developed to explain why we have the right to punish. Examines the historical evolution of our punishment system and focuses on the death penalty as a critical contemporary issue in the debate about the proper role of punishment in our society.

Law School | Law | Jurisprudence and Perspective

LAWS-8555 (2) Seminar: Race, Education and American Law

Explores issues of equity, access, and reform in American public education, particularly as it pertains to race, including desegregation, diversity, equal protection and public education, tracking and high-stakes testing, courts or the political branches, charters and vouchers. Restricted to Law students only. Recommended prereq., LAWS 7525. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-8608 (2) Seminar: Power, Ethics, and Professionalism

Examines critically the possibility and character of ethical reasoning within the legal profession in light of its institutional structures. Explores descriptive/normative accounts of the profession's structure, "Professionalism," and individual conscience. Put simply, the seminar explores whether it is possible to be a good lawyer and ethical person.

Law School | Law | Jurisprudence and Perspective

LAWS-8613 (2) Seminar: Civil Liberties Litigation

Studies issues unique to the prosecution and defense of civil liberties lawsuits. Discusses litigation strategies with reference to lawsuits currently pending in the federal courts.

Law School | Law

LAWS-8628 (2) Seminar: Law, Power, and Politics

Draws upon various works of political theory, social theory, and jurisprudence to examine different conceptualizations of politics, power, law, and their relations.

Law School | Law

LAWS-8648 (2) Seminar: The Law of Politics

Examines the legal framework that governs the political process, including such topics as the political question doctrine, the "Right to vote," the 2000 presidential election controversy, term limits, bicameralism and presentment, campaign finance, direct democracy, and the interpretation of the legislative product (i.e., statutes).

Law School Law

LAWS-8701 (2) Seminar: Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409.

Law School Law Business

LAWS-8705 (2) Seminar: Affordable Housing

Explores the policy, legal, and practical dynamics that drive the development and preservation of privately owned, government subsidized affordable housing. Investigates the nature of the market for housing, with particular emphasis on multifamily rental housing, and debates about market failure in that context and then outline and contrast the major regulatory responses to such market failure. Explores how subsidy programs work in practice, focusing on model documents to frame sample transactions.

Law School Law Government and Public

LAWS-8718 (2) Seminar: Modern Theorists and Law

Considers the work of Levi-Strauss, Steven Lukes, Pierre Bourdieu, Alfred Schutz, Anthony Giddens, Culler, David Harvey, Denis Cosgrove, Michel Foucault, and Emily Martin with respect to social control and law. Focuses on the way in which social control is exercised through the organization of space, time, and the human body. Topics include consideration of meaning, intersubjectivity in the law, social construction of time, and the body as a real and cultural artifact.

Law School Law

LAWS-8725 (2) Seminar: Advanced Topics in American Indian Law

Examines a variety of current issues related to American Indian Law. The topics will change to reflect the subjects that emerge at each time that the seminar is offered. Some examples of topics considered in this seminar include legal protections for American Indian religion and culture, cultural property, Tribal law, gaming law, and Native American natural and cultural resources law. Coreq., LAWS 7725.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-8728 (2) Seminar: Critical Theory Colloquium

Surveys critical legal theory; introduces the discipline of analytical engagement with law review literature; feminist legal theory, and critical race theory. Offers a deeper understanding of the purposes behind legal reforms, the interaction between law on the books and law in action, how different groups experience the law in different ways, and difficult yet rewarding nature of working through seemingly intractable and emotionally charged race, sex, and class issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-8755 (2) Seminar: Higher Education and the Law

Examines the goals, governance, norms, and ideals of American institutions of higher education, and how those policies are shaped by the legal system. Examines the legal relationship between institutions of higher education and its various constituents: faculty, presidents, governing boards, students, alumni, and staff. Spans several traditional doctrinal categories, including contract, torts, employment law, constitutional law, intellectual property, tax, and antitrust.

Law School | Law | Government and Public

LAWS-8765 (2) Seminar: Gender, Law, and Public Policy

Examines the relationship of law and gender in criminal law, and constitutional law, using feminist theoretical perspectives as the organizing principle. Each perspective is applied to cases and material on such topics as violence against women, prostitution, pornography, and discrimination in education and athletics. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-8775 (2) Seminar: Advanced Topics in Health Law and Policy

Addresses advanced legal issues in representing physicians, long-term care institutions, hospitals, and other health providers. Issues range from economic policy, distributive justice, and bioethical questions to antitrust and regulatory issues. Recommended prereq., LAWS 7425. To be taught at Health Sciences Center.

Law School | Law

LAWS-9002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Restricted to Law students only. Prereq., LAWS 6112. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-9061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps and warranties, capitalized terms, definitions, indemnifications and escrow). Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; construction problems in estate distribution. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Property

LAWS-9111 (4) Business Law Colloquium

Business law scholars from CU and around the country present research papers at this weekly colloquium. Topics may include contracts, corporate law, securities regulation, tax, intellectual property, venture capital and private equity, and the legal profession. No prior knowledge of law and economics is expected, although some knowledge of business organizations will be useful. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9112 (2-3) Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip and requires additional field trip expenses. May be repeated up to 5 total credit hours. Restricted to Law students only. Recommended prereq., LAWS 6112 or students must have taken or be currently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-9167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sales of interests, and liquidation. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Taxation

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LAWS-9209 (4) Natural Resources Law Clinic

Engages in litigation and advocacy aimed at protecting the natural resources of the Rocky Mountain region. Students will represent clients in matters involving public lands, wildlife, and other resources. The seminar component will focus on practical aspects of environmental litigation, including administrative practice and decision-making, client representation, citizen suits, and ethical issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9341 (3) Law and Economics of the Information Age

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Restricted to Law students only. Prereq., LAWS 7201, 7241 or 7301. Same as TLEN 5620. Prerequisites: Restricted to Law students only.

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LAWS-9401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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LAWS-9409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Restricted to Law students only. Credit is not given for LAWS 741 and this course. Prerequisites: Restricted to Law students only.

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LAWS-9701 (2) Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Restricted to Law students only. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409 Prerequisites: Restricted to Law students only.

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LAWS-9735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Restricted to Law students only. Prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

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BADM-3880 (3) Special Topics

Introduces students to the many facets of the marketing of sport and marketing through sport. Theoretical and practical applications of marketing sport are examined. The course will provide students with an understanding of current marketing concepts, and best business practices, related to sports enterprises and a foundation for pursuit of further study and work in sports and event marketing. Restricted to juniors/seniors.

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BADM-3930 (1-6) Internship

Student training and participation in government or industry environment under faculty supervision. Prereqs., BCOR 1000, 2000, 2010, 2050, GPA 2.50, junior standing and instructor consent.

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BADM-4820 (1-6) Special Topics

Variable topics in business drawing from a variety of business disciplines. Prerequisites: Restricted to Business majors with 52-180 units completed.

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BADM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Administration. Restricted to juniors/seniors.

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BADM-4830 (1-3) Special Topics

Various topics in business and society drawing from a variety of business disciplines. Restricted to junior/senior BU majors. Prerequisites: Restricted to College of Business majors only.

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BADM-4910 (2) VITA-Volunteer Tax Assistance

Offers students the opportunity to gain professional work experience in an accounting position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Prereqs., BCOR 2000 and ACCT 4440 or ACCT 5440. Prerequisites: Restricted to Business majors with 52-180 units completed.

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BADM-6820 (1-3) Topics in Business Administration

Offered irregularly to provide opportunity to investigate new topics in business administration.

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BADM-6930 (3) Commercializing Sustainable Energy Technologies

Addresses the opportunities and problems of commercializing new renewable energy technologies. Focuses on energy markets, opportunity identification, life cycle analysis, policy economics, project financing, and economic analysis as they relate to bringing renewable energy technologies to market.

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ACCT-3220 (3) Corporate Financial Reporting 1

First of a two-course sequence intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Prereqs., BCOR 2000 and BCOR 2200. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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ACCT-3225 (6) Corporate Financial Reporting

Intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Builds and extends detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

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ACCT-3230 (3) Corporate Financial Reporting 2

Second in a two-course sequence building and extending detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., ACCT 3220 and 52 hours completed.
Prerequisites: Restricted to Business majors with 52-180 units completed.

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ACCT-3320 (3) Cost Management

Provides cost analysis for the support of management decision making. Analyzes activities, cost behavior, role of accounting in planning, financial modeling, and managerial uses of cost data. Prereq., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

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ACCT-4240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereqs., ACCT 3230. Restricted to Accounting or Finance majors with 52-180 units completed. Same as ACCT 5240. Prerequisites: Restricted to Accounting or Finance majors with 52-180 units completed.

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ACCT-4250 (3) Financial Statement Analysis

Focuses on the use of U.S. and international accounting information by decision-makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity valuation and risk analysis. Prereq., ACCT 3220. Prerequisites: Restricted to Accounting, Finance or Accounting Concurrent Degree majors only with 52-180 units completed.

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ACCT-4330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereqs., ACCT 3220, 3230, and 3320. Same as ACCT 5330. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

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ACCT-4430 (3) Personal Financial Planning

Extends the concepts, tools, and applications of personal finance and investments beyond ACCT 2820. Focuses on the development of a financial plan to achieve financial goals. Restricted to 52 hours completed.

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ACCT-4440 (3) Income Taxation of Individuals

Examines concepts and structure of the United States income tax system. Focuses on concepts affecting all taxpayers, with emphasis on individual taxation. Prereq., ACCT 3220. Same as ACCT 5440. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

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ACCT-4540 (3) Accounting Information Systems

Considers the interaction of accountants with information systems and the role of accounting information systems in business processes. Focuses on the tools used by accountants and provides an understanding of accounting as an information system. Prereq., ACCT 3220. Same as ACCT 5540. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

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ACCT-4620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Same as ACCT 5620. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

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ACCT-4800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed. Prereq., ACCT 3220. Same as ACCT 5800. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

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ACCT-4820 (3) Topics in Business

Offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq., ACCT 3220. Same as ACCT 5820. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

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ACCT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Restricted to juniors/seniors. Same as ACCT 5825.

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ACCT-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as CESR 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

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ACCT-4850 (3) Senior Seminar in Accounting

This seminar examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Prereqs., ACCT 3230, one 4000-level ACCT course. Restricted to 102 hours completed and to graduating senior ACCT majors. Formerly BCOR 4001. Prerequisites: Restricted to Accounting majors with 102-180 units completed.

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ACCT-4900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors. Departmental form required.

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ACCT-5240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5250 (3) Financial Statement Analysis

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereqs., ACCT 3220 and MBAC 6020. Same as ACCT 4250. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereq., ACCT 3320. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5440 (3) Income Taxation of Individuals

Prereq., ACCT 3220. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4440. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5540 (3) Accounting Information Systems

Prereq., ACCT 3220 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4540. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4620. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5700 (3) International Accounting

Intensive focus on international financial statement analysis, cultural and economic differences that affect financial reporting in various countries. Examples include international financial reporting standards and accounting for foreign currency transactions. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4700. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereq., ACCT 3220. Same as ACCT 4800. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5820 (3) Topics in Business

Prereq., ACCT 3230 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4820. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Prereq. ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4825. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6000 (1-4) Academic Internship in Accounting

Offers students the opportunity to gain professional work experience in an accounting or tax position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes lectures and a course paper. Students may not preregister for this course, and they must contact the Director of the concurrent degree program in accounting for approval. Restricted to graduate students only. Prereq., ACCT 3230, at least 90 credit hours of course work and a minimum GPA of 3.00, and instructor consent. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6220 (3) Corporate Financial Reporting

Provides an in-depth study of the concepts underlying contemporary financial accounting practice. Includes preparation and analysis of financial statements and the application of concepts to selected current issues. Students with credit for ACCT 3220 and 3230 or equivalents may not receive credit for ACCT 6220. Prereq., MBAC 6020 or equivalent. Same as MBAX 6700.

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ACCT-6250 (3) Financial Statement Analysis

Focuses on the use of accounting information by decision makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity analysis. Prereq., MBAC 6020 or equivalent. Same as MBAX 6710.

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ACCT-6260 (3) Seminar: Managerial Accounting

Explores cost management, especially as related to organizational decision making, planning, and control. Emphasizes case analysis and applications. Prereq., MBAC 6020 or equivalent, or instructor consent.

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ACCT-6270 (3) Seminar: Income Determination

Critical analysis of problems and theory of measurement and reporting of periodic net income of business organizations. Net income models, research efforts, and role of professional accounting organizations. Current issues and problems given special attention. Prereq., ACCT 3230 or equivalent, or instructor consent.

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ACCT-6350 (3) Current Issues in Professional Accounting

Examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including

implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Counts as senior seminar for Concurrent degree students. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6420 (3) Research and Writing in Income Taxation

Studies and applies the method used in tax research and tax planning, with the goal of developing tax research, technical writing, and tax planning skills. Topics include examining primary and secondary sources of federal tax law, evaluating the hierarchy of these sources, and developing technical writing skills using deductive legal reasoning. Prereq., ACCT 5440 or equivalent, or instructor consent. Prerequisites: Restricted to graduate students in Accounting, Finance, Mgt Sci-Information Systems, Organizational Management, Marketing, Business Administration, or Master of Business Administration.

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ACCT-6430 (3) Taxation of Partnerships

Studies federal income taxation of pass-through entities such as those used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., ACCT 5440 or equivalent, or instructor consent. Coreqs., ACCT 6420 and 6700. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as LAWS 6167. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6440 (2-3) Tax Policy

Offers a research seminar exploring policy issues of taxation including recent legislative proposals. Students prepare a publishable research paper on a tax policy topic agreed upon with the instructor. Prereq., ACCT 5440 or equivalent, or instructor consent. Coreqs., ACCT 6420 and 6700.

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ACCT-6450 (3) Taxation of Corporations

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., ACCT 5440 or instructor consent. Coreqs., ACCT 6420 and 6700. Same as LAWS 6157. Prerequisites: Restricted to Business Administration, Accounting, Accounting-Taxation, Accounting-Information Systems, Mgt Sci-Information Systems, Finance, Marketing or Master of Business Admin graduate students only.

Leeds School of Business | Accounting

ACCT-6490 (3) Taxation of Natural Resources

Concerned with tax problems encountered in acquisition, operation, and disposition of natural resource properties. Topics include depletion, lease bonuses, intangible drilling costs, depreciation,

and financing arrangements. Prereqs., admission to the graduate tax program, ACCT 6700 or equivalent, or instructor consent.

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ACCT-6500 (3) Special Topics in Taxation

Covers a diverse array of issues in taxation. Highlights areas of current interest and draws on the strengths of leading outside authorities as guest lecturers in various topic areas. Prereq., ACCT 6420 and 6700.

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ACCT-6620 (3) Advanced Auditing: Business Risk and Decision Analysis

Explores contemporary issues, historical developments, and selected topics pertinent to business assurance services by independent accountants. Emphasizes improving both the decision behavior of decision makers and the quality of information, or its context, for decision makers. Prereq., ACCT 5620 or equivalent.

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ACCT-6700 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prereq., ACCT 5440 or equivalent. Same as LAWS 6007. Prerequisites: Restricted to Accounting (ACCT), Accounting-Information Systems (ACIS), Accounting - Taxation (ACTX), Master of Business Admin (MBA) or Business Administration (BUAD) graduate students only.

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ACCT-6710 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prereq., ACCT 5440 or equivalent. Coreqs., ACCT 6420 and 6700. Same as LAWS 7207. Prerequisites: Restricted to Accounting (ACCT), Accounting-Information Systems (ACIS), Accounting - Taxation (ACTX), Master of Business Admin (MBA) or Business Administration (BUAD) graduate students only.

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ACCT-6720 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prereq., ACCT 6710 or equivalent. Same as LAWS 7217.

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ACCT-6780 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as LAWS 7617. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6820 (1-3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq. varies.

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ACCT-6900 (1-6) Independent Study

Requires prior consent of instructor under whose direction study is taken. Departmental form required. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6940 (1) Master's Degree Candidacy

Departmental form required. Prerequisites: Restricted to Business graduate students only.

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ACCT-6950 (1-4) Master's Thesis

Prerequisites: Restricted to Business graduate students only.

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ACCT-7300 (3) Doctoral Seminar: Introduction to Accounting Research

Introduces students to seminal accounting research, covering a variety of topics and research methods. Provides students with instruction and experience in reading, critiquing and discussing accounting research. Provides a framework for understanding the financial reporting choice from both contracting and valuation perspectives.

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ACCT-7320 (3) Doctoral Seminar: Accounting and Capital Markets I

One semester of a two-semester course in accounting-related capital markets and research, spanning topics such as: information intermediaries; earning management; auditing and other monitoring mechanisms; efficient versus opportunistic accounting choice related to contracts between the firm and its stakeholders; cost of capital; and market efficiency with respect to accounting information. Papers covered apply primarily economics-based archival and empirical research methods. Prereq., ACCT 7300.

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ACCT-7330 (3) Doctoral Seminar: Accounting and Capital Markets 2

The second semester of a two-semester course in accounting-related capital markets research. See ACCT 7320 for a description of the course content which is allocated evenly between ACCT 7320 and 7330.

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ACCT-7340 (3) Doctoral Seminar: Managerial Accounting Research

Survey of managerial accounting research, emphasizing a variety of methodologies including economics-based archival empirical and experimental approaches. Topics include: management performance measurement; management incentives; non-financial performance measures; management control systems; cost behavior and cost structure; intra-firm transfer pricing; inter-firm relations and knowledge sharing; risk preferences; risk taking and risk sharing; strategic performance measurement; agency theory; and budgetary slack and performance. Prereq., Acct 7300. Prerequisites: Restricted to Graduate Students only.

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ACCT-7800 (3) Doctoral Seminar: Accounting Theory

Follows the evolution of game-theoretical analytical research and application of analytical methods to topics including: accounting-based valuation, discretionary disclosure, stewardship role of accounting, insider trading and imperfect capital market models, signaling through accounting choice, deferred tax accounting, audit sampling, auditor rotation, and low balling. Describes implications of analytical results for primarily economics-based empirical research designs. Open only to doctoral students.

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ACCT-7830 (3) Doctoral Seminar: Accounting Research

Designed to assist the doctoral student in integrating courses and fields of study in order to be able to apply knowledge and skills to problems in accounting. Special attention given to the development of thesis topics.

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ACCT-8820 (1-6) Graduate Seminar

Provides opportunity for investigation of new frontiers in accounting through an experimental seminar. May be repeated up to 6 total credit hours. Prereq. varies. Offered irregularly.

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ACCT-8900 (1-3) Independent Study

Requires instructor's consent and departmental form (taught as doctoral seminar). Prerequisites: Restricted to Business graduate students only.

Leeds School of Business | Accounting

ACCT-8990 (1-10) Doctoral Thesis

Prerequisites: Restricted to Business graduate students only.

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REAL-4000 (3) Real Estate Law

Building upon the legal concepts and issues introduced in REAL 3000, the course provides a deeper study of the laws and legal issues impacting and governing real property rights and interests including the acquisition, ownership, possession, use and transfer of real property. Incorporates both a lecture and case study approach fostering regular classroom discussions. Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

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REAL-4100 (3) Real Estate Finance and Investment Analysis

Covers: 1) traditional and alternative financing of residential and commercial real estate; 2) pro forma cash flows and valuation of income generating properties; 3) real estate decisions of non-real estate corporations; and 4) mortgage backed securities and real estate investment trusts (REITs). Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

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REAL-4810 (3) Real Estate Internship

As the capstone course for the Real Estate Certificate program, students complete approximately 150 internship hours with a real estate company over the semester (approximately 10 hours per week). The class will meet biweekly and focus on career options and opportunities in real estate. Contact the Real Estate Center for internship and registration information.

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REAL-4820 (3) Topics: Real Estate Development

Surveys the process of real estate development with a focus on the market analysis, urban dynamics and financing. Students will understand the complexities of the development process as it creates the communities in which we live and the many roles the student can play as a real estate professional. Prereq., REAL 3000. Prerequisites: Restricted to Business majors with 52-180 units completed.

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REAL-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Real Estate. Restricted to juniors/seniors.

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REAL-4900 (1-3) Independent Study

Intended for exceptionally well-qualified business seniors who desire to study an advanced topic. Must be in Real Estate Certificate Program. Prereq., dean and instructor consent.

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REAL-6820 (3-6) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in real estate.

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REAL-6900 (1-3) Independent Study

Students must have consent of instructor under whose direction study is taken. Departmental form required.

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FNCE-4000 (3) Financial Institutions Management

Analyzes the structure, markets, and regulations of financial institutions. Studies problems and policies of internal management of funds, loan practices and procedures, investment behavior, deposit and capital adequacy, liquidity, and solvency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

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FNCE-4030 (3) Investment and Portfolio Management

Develops modern portfolio theory and applies it to pricing both individual assets and portfolios of assets. Topics include Markowitz portfolio selection model, capital asset pricing model, arbitrage pricing theory, options, futures, bonds, portfolio performance measurement, and issues of market efficiency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

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FNCE-4040 (3) Derivative Securities

Develops the modern theory of contingent claims in a mathematical framework oriented toward applications. Examines how to use derivatives for risk management and to tailor portfolio payoffs. Provides an in-depth analysis of the properties of options. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

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FNCE-4050 (3) Capital Investment Analysis

Focuses on capital budgeting and investment issues. Emphasizes issues relating to cash flows, capital rationing, the investment versus financing decision, leasing, fluctuating rates of output, investment timing, capital budgeting under uncertainty, and investment decisions with additional information. Prereq., FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

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FNCE-4060 (1-6) Special Topics in Finance

Presents new subject matter in finance. The summer offering is the London Seminar in International Finance and Business. Prereqs. vary depending upon course offering. See advising office.

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FNCE-4070 (3) Financial Markets and Institutions

Examines the economics of financial markets and the management of financial institutions, both domestic and international. Topics include an overview of U.S. and international financial markets, pricing and risk factors, interest rates, markets for securities and financial services, and markets for derivative financial instruments. Prereq., BCOR 2200. Restricted to students with 52 hours completed. Formerly FNCE 3020. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

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FNCE-4820 (3) Topics in Finance

Offered irregularly to provide opportunity for investigation into new frontiers in finance. May be repeated up to 6 total credit hours. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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FNCE-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Finance. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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FNCE-4830 (3) Seminar in Investment Banking

Introduces the student to a career in investment banking and provides specific modeling skills necessary and important during the first phase of such a career. Prereq., BCOR 2200.

Recommended prereq., FNCE 3010. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

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FNCE-4831 (3) Seminar in Investment Management

The purpose of this course is for students to understand the investment management profession. The course is designed to be a blend of theory and practice. Extends the basic principles of security analysis, asset pricing theory, portfolio construction, and portfolio performance evaluation. Students will apply these principles in determining, over the semester, how to manage the CU investment fund. Prereqs., BCOR 2000, 2300, and FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

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FNCE-4832 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

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FNCE-4850 (3) Business Senior Seminar in Finance

Develops analytical and decision making skills necessary to address real-world business finance situations. Topics include financial analysis and forecasting, capital budgeting, valuation, capital structure policy, international finance, and financial ethics. Uses a combination of lecture and cases; team and individual work. Prereqs., ACCT 3220, FNCE 3010, 4030, and 102 hours completed. Restricted to graduating senior FNCE majors. Formerly BCOR 4002. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Finance majors with 102 to 180 units completed.

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FNCE-4900 (1-6) Independent Study

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FNCE-6820 (1-3) Graduate Seminar

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FNCE-6900 (1-6) Independent Study

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FNCE-6950 (1-6) Master's Thesis

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FNCE-7100 (3) Doctoral Seminar: Finance Theory

Develops the foundations for the study of modern financial economics by analyzing individuals' consumption and portfolio decisions in the context of risk and then traces the implications to market valuation of traded securities. Topics include the meaning and measurement of risk, portfolio theory, the Capital Asset Pricing Model, and arbitrage pricing arguments like those employed in Modigliani and Miller's capital structure theory and the Black-Scholes option pricing model. Prerequisites: Restricted to Business Administration graduate students only.

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FNCE-7200 (3) Doctoral Seminar: Empirical Research Methods in Finance

Develops an understanding of current empirical methods used to examine research issues related to corporate finance and the capital markets.

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FNCE-7330 (3) Doctoral Seminar: Corporate Finance, Theoretical, and Empirical Issues

Develops and examines theories and issues in corporate finance. Topics may include corporate control, capital structure, financial signaling, and payout policy.

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FNCE-7550 (3) Doctoral Seminar: Special Topics in Finance

Closely examines areas of specific interest to academic research in finance. Subjects vary and may include game theory, stochastic processes in finance, continuous-time modeling, derivative security pricing, the microstructure of securities markets and financial institutions, innovation, and engineering.

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FNCE-7800 (3) Doctoral Proseminar: Finance

Provides finance doctoral students with an orientation to the finance field; introduces contemporary research perspectives and priorities. Students discuss papers that illustrate academic researchers' use of various disciplinary theoretical and empirical tools to address finance problems.

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FNCE-7830 (1) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to apply their knowledge and skills to problems in finance. Gives special attention to development of thesis topics. Continuous enrollment required of all finance doctoral students while doing course work.

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FNCE-8820 (3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

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FNCE-8900 (1-3) Independent Study

Instructor consent and departmental form required.

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FNCE-8990 (1-10) Doctoral Thesis

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MGMT-4010 (3) Redefining the Employee-Employer Relationship

Explores developments in such areas as employee relations law and procedures, employee and employer rights, worker involvement programs, environmental safety and health, and the effects of technology on emerging organization forms. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4020 (3) Hiring and Retaining Critical Human Resources

Allows students the opportunity to practice conducting job analyses and then use this information to develop employee selection and performance appraisal systems. Provides thorough coverage of employers' equal employment opportunity and affirmative action obligations, as well as various approaches to gender, cultural, and ethnic diversity. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4030 (3) Managing Employee Reward Systems

Examines theories of work motivation and relates them to the strategic use of compensation and other reward systems. Topics include procedures for managing base pay; linking pay incentives to productivity at the individual, group, and organizational levels; developing cost-effective programs of employee benefits; and the use of nonfinancial reward systems. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4040 (3) Individual, Team, and Organizational Development

Explores how to determine where an organization needs to focus its development efforts, how to develop and deliver an effective training program, and how to evaluate the impact of development programs on organizational effectiveness. Explores individual, team, and organization-wide development, including such topics as skills training, team building, and managing change. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4090 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereqs., BCOR 2200 or BCOR 2300. Restricted to business majors with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4110 (3) Supply Chain Management

Explores the key issues related to the design and management of supply chains. Covers the efficient integration of suppliers, production facilities, warehouses, and stores so that the right products in the right quantity reach customers at the right time. Focuses on the minimization of the total supply chain cost subject to service requirements imposed by a variety of industries. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4050, OPIM 4050. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to Business, AEBU, ARBU, CEBU, CVBU, CSBU, ECBU, MEBU, EVBU, ADBU, BNBU, NEBU or MUBU Majors with 52-180 units completed.

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MGMT-4140 (3) Project Management

Introduces multidisciplinary project management concepts, skills, and tools, including the relationship between project definition, organization, planning, scheduling, resource and risk management, control, costing, and performance. Presents both qualitative and quantitative tools for better project management. Prereq., BCOR 2500 and 52 hours completed. Formerly OPIM 4080 and MGMT 4085. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4150 (3) International Operations Management

Compares systems of production/operations management in the United States with those in Japan, Europe, and Asia. Contrasts various regional and national approaches to business, quality management, labor practices, management styles, international competitiveness, productivity, distribution systems, trade practices, and strategies for penetrating foreign markets. Examines different sociocultural environments, government-business relationships, banking industries, operations strategies, and the potential for transferring industrial management practices and techniques between countries. Prereq., BCOR 2500. Restricted to students with 52 hours completed. Formerly OPIM 4065 and MGMT 4070. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MGMT-4210 (3) Systems Thinking

Analysis of systems thinking and understanding the complex interactions of collections of people, processes, organizations, and technologies. Students learn to be creative and critical thinkers who can conceptually model the very complex systems we encounter in our world today. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3000, OPIM 3000. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4220 (3) Business Technologies

Covers the use and configuration of ERP (enterprise resource planning) technologies in businesses. Emphasizes the understanding of the usage of technology in facilitating business processes within firms. Covers many modules/functional areas, including sales, marketing, distribution, manufacturing, etc. Students learn the importance of technology to organizations through hands-on use of multiple ERP software, focusing on both business processes as well as technology. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3101, OPIM 3101. Prerequisites: Restricted to students with 52-180 units completed.

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MGMT-4230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4820 (3) Topics in Business

Experimental course offered irregularly for purpose presenting new subject matter in organization management. Same as MGMT 5820.

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MGMT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Management. Restricted to Business (BUSN) majors with 52-180 units completed. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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MGMT-4850 (3) Senior Seminar in Management

Covers the issues and challenges of running a firm in a competitive environment. It integrates and builds upon coursework in other functional areas. Discusses principles, frameworks, and techniques that helps understand how to analyze the competitive environment; firm sources of competitive advantage; competitive dynamics; and, specific types of strategies to promote firm performance. Focuses on specific company examples. Prereqs., BCOR 2300, 2500, MGMT 3030. Restricted to students with 102-180 units completed. Formerly MGMT 4000.

Prerequisites: Restricted to students with 102-180 units completed.

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MGMT-4900 (1-3) Independent Study

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MGMT-4910 (1-3) Academic Internship in Management

Offers students the opportunity to gain professional work experience in a management position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes 100 hours per credit and a course paper. Instructor consent is required. Pass/Fail grading only. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4910, OPIM 4910. Prerequisites: Restricted to students with 52-180 units completed.

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MGMT-5120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Graduate Students only.

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MGMT-5230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Graduate Students only.

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MGMT-5820 (3) Topics in Business

Same as MGMT 4820.

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MGMT-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

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MGMT-8990 (1-10) Doctoral Thesis

Work with a faculty advisor on a doctoral thesis. Student should have passed comprehensive exam before registering for doctoral thesis hours. Prerequisites: Restricted to Graduate Students only.

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ESBM-3700 (3) Entrepreneurial Environments

Introduces entrepreneurship. Addresses opportunity recognition, target markets, industry analysis, business model identification, sources of funding, managing rapid growth, and writing feasibility studies. Examines alternative forms of entrepreneurship such as franchising, corporate entrepreneurship, family business, and social entrepreneurship. Prereqs., BCOR 2000, 2050, 2100, 2150, or BCOR 2000, 2200, 2300, 2400. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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ESBM-4100 (3) Writing a Venture Plan

Requires non-business students to engage in a rigorous, thoughtful and challenging process essential to planning a new venture. Using their own concept, students will develop a strategy to start and grow a venture. Communicating the plan is an essential element of this course and students will learn when and how to write a plan and make effective presentations. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

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ESBM-4570 (3) Entrepreneurial Finance.

Focuses on the financial concepts, issues, methods, and industry practices relevant to entrepreneurial decision makers. Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Provides an understanding of the segments of the capital markets specializing in start-ups and growth financing. Prereq., BCOR 2200. Restricted to Business majors with 52-180 units completed.

Prerequisites: Restricted to Business majors with 52-180 units completed.

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ESBM-4820 (3) Special Topics in Entrepreneurship

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ESBM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Entrepreneurship and Small Business Management. Restricted to juniors/seniors.

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ESBM-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

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ESBM-4830 (3) Entrepreneurship Business Planning and Preparation

Work as part of a small team, with the focus on the process of creating a plan from the business concept and model through all of the elements of a professionally written business plan document. Prereqs., ESBM 3700 and 4570. Same as EMEN 4825. Prerequisites: Restricted to Business majors with 52-180 units completed.

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ESBM-4900 (1-3) Projects in Entrepreneurial Companies

Complete projects in preselected entrepreneurial companies. Prereq., instructor consent.

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MKTG-3250 (3) Buyer Behavior

Covers both consumer buying behavior and organizational buying behavior. Consumer behavior topics include needs and motives, personality, perception, learning, attitudes, cultural influence, and contributions of behavioral sciences that lead to understanding consumer decision making and behavior. Explores differences between business and consumer markets, business buying motives, the organizational buying center and roles, and the organizational buying process. Required for marketing majors. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2050 or 2400. Restricted to Business or ADVT Majors and 52-180 hours completed.

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MKTG-3350 (3) Marketing Research

Explores fundamental techniques of data collection and analysis used to solve marketing problems. Specific topics include problem definition, planning an investigation, developing questionnaires, sampling, tabulation, interpreting results, and preparing and presenting a final report. Required for marketing majors. Prereqs., BCOR 1020 and 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 1020 and 2050 or 2400. Restricted to Business Majors with 52-180 units completed.

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MKTG-3825 (3) Experimental Seminar

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing. Prereq., BCOR 2400. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

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MKTG-4250 (3) Product Strategy

Covers major topics in managing long-term customer relationships that derive from products. Focuses on concepts, analyses, and strategies for existing and new products. Topics include concept development and testing, conjoint analysis, product positioning, brand image measurements and brand management, and product issues in public policy and ethics. Methods of instruction include lectures, case discussions, student group papers and projects, and examinations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

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MKTG-4300 (3) Pricing and Channels of Distribution

Offered regularly to examine pricing and channel management, the two key components of companies' marketing strategies. Help students to understand the common types of pricing and channel strategies, the rationales behind these strategies. Train students to think analytically in order to apply these strategies. Prereqs., MKTG 3250 and 3350. Restricted to BUSN students with minimum 52 units completed. Prerequisites: Requires pre-requisite courses MKTG 3250 and 3350. Restricted to Business majors with minimum 52 units completed.

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MKTG-4350 (3) Services Marketing Strategy

Designed for those students interested in working in the service industries. Addresses the distinct needs and problems of service organizations in the area of marketing and service quality. Service organizations (i.e., banks, transportation companies, hotels, hospitals, educational institutions, professional services, etc.) require a distinctive approach to marketing strategy--both in its development and execution. Builds and expands on marketing ideas and how to make them work in service settings. Prereqs., MKTG 3250 and 3350.

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MKTG-4500 (3) Advertising Management

Prereqs., MKTG 3250 and 3350. Restricted to students with 52 hours completed.

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MKTG-4550 (3) Advertising and Promotion Management

Analyzes advertising and promotion principles and practices from the marketing manager's point of view. Considers the decision to advertise, market analysis as a planning phase of the advertising program, media selection, public relations, sales promotion, promotion budgets, campaigns, evaluation of results, and agency relations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

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MKTG-4650 (3) Institutional Relationships and Strategy

Focuses on the management of a firm's relationships with other businesses. Addresses business-to-business marketing strategies, relationships with channel members, and strategic alliances/partnerships. Topics include relationship structures, power, conflict, negotiation, industry analysis, selection of business partners, and managing for long-term stability. Prereqs., MKTG 3250 and 3350.

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MKTG-4810 (3) Honors Seminar

Social responsibilities of the business executive, business ethics, business-government relations, and business in literature. Open to seniors who have completed at least 30 semester hours of business courses with not less than a 3.30 GPA and have instructor consent. Prereq., BCOR 2400.

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MKTG-4820 (3) Special Topics in Marketing

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MKTG-4825 (1-3) Pricing and Channels of Distribution

Offered irregularly to provide opportunity for investigation of new frontiers in Marketing. Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior).

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MKTG-4850 (3) Senior Seminar in Marketing

Capstone marketing course that integrates and further develops what students have learned in other courses. Provides students with the insight and skills necessary to formulate and implement sound socially responsible marketing strategies, product line management strategies, promotional and product/service communication strategies, pricing, and distribution strategies. Prereqs., MKTG 3250, 3350, two additional 4000-level MKTG courses from either MKTG 4250, 4300 or 4550 with the third serving as a co-requisite, and 102 hours completed. Restricted to graduating MKTG majors. Formerly BCOR 4004. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350 and either MKTG 4250 or 4300 or 4550. Restricted to MKTG Majors with 102 to 180 units completed.

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MKTG-4900 (1-6) Independent Study

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MKTG-6900 (1-3) Independent Study

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MKTG-6940 (1) Master's Candidate

Departmental form required.

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MKTG-6950 (1-6) Master's Thesis

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MKTG-7000 (3) Seminar in Consumer Behavior

Studies the nature and determinants of consumer buying behavior. In-depth investigation of contributions of behavioral sciences (especially psychology, sociology, and cultural anthropology) toward understanding consumer behavior. Influence of demographic factors, motivation, personality, culture, and purchasing behavior. Prereq., instructor consent.

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MKTG-7200 (3) Experimental Research Methods in Marketing

Provides a detailed exposure to the design of laboratory/field experiments and quasi-experiments for marketing and consumer research. Emphasizes the choice of design options, data collection methods, statistical analysis, and substantive interpretation of experimental results.

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MKTG-7300 (3) Multivariable Methods in Marketing Research

Includes Manova designs, causal models, cluster analysis, discriminant function analysis, factor analysis, and latent structure analysis. Emphasizes computer applications. Prereqs., graduate courses in regression and Manova.

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MKTG-7305 (3) Qualitative and Survey Research Methods in Business

Detailed exposure to qualitative and survey research methods in business. Qualitative methods include participant observation, depth interviews, focus-group interviews and ethnography. Survey methods include measurement theory, survey design and sampling, survey implementation, data analysis, and substantive interpretation.

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MKTG-7310 (3) Design and Analysis of Experiments in Business

Detailed exposure to experimental research methods for business applications. Emphasizes the choice of design options, data collection methods, statistical analysis, and substantive interpretation of experimental results.

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MKTG-7400 (2) Doctoral Seminar: Channels of Distribution

Study of marketing literature in channels of distribution. Includes topics of channel structure, channel power, channel conflict and leadership, physical distribution systems, and regulation.

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MKTG-7500 (2) Doctoral Seminar: Promotion

Study of marketing literature dealing with advertising, selling, sales promotion, and sales management. Includes topics of advertising decision models, advertising effects, sales-force performance models, and promotion management.

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MKTG-7600 (3) Doctoral Seminar: Services Marketing

Study of marketing literature dealing with services. Includes such topics as service management, theoretical issues in the study of services, and strategies in travel, tourism, recreation, and financial services industries.

[Leeds School of Business](#) | [Marketing](#)

MKTG-7800 (3) Doctoral Proseminar: Marketing

Provides marketing doctoral students with an orientation to the marketing field and introduces contemporary research perspectives and priorities. Students discuss papers that illustrate academic researchers' use of various disciplinary perspectives to address marketing problems and the range of theoretical and empirical methods used.

[Leeds School of Business](#) | [Marketing](#)

MKTG-7805 (3) Doctoral Seminar: Economic and Administrative Science Approaches to Research

Examines marketing management and consumer behavior issues from the vantage of economics and organizational theory. One segment of the course focuses on theoretical and empirical analysis of the means by which utility-maximizing consumers learn about consumption environment and respond to firms' marketing decisions. Another segment examines research on firms' competitive strategy and marketing mix decisions and explores how organizational sociological factors influence these decisions.

[Leeds School of Business](#) | [Marketing](#)

MKTG-7810 (3) Doctoral Seminar: Psychological Approaches to Research in Marketing

Examines the basic psychological processes that underlie common marketing phenomena. Topics include memory and judgment, persuasion, attitude-behavior consistency, information processing, automatic and controlled processes, learning, motivation and cognition, social judgment, and the role of affect and mood on judgment. Discusses topics in consumer behavior and marketing management contexts, in conjunction with related methodological issues. Prerequisites: Restricted to Graduate Students only.

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MKTG-7815 (3) Doctoral Seminar: Consumer and Managerial Decision Making in Marketing

Examines judgment and decision making research pertinent to understanding how consumers and marketing managers make decisions. Uses economic models as a normative backdrop for examining research on decision heuristics, judgment and choice anomalies, and contingent decision behavior. Examines processes of causal judgment and inference and the influence of a variety of contextual factors (including time) on judgment and decision.

Leeds School of Business | Marketing

MKTG-7820 (3) Doctoral Seminar: Sociological and Anthropological Approaches to Research in Market

Inquires into substantive and methodological issues concerning postmodern consumer research. Attains depth in a few areas while also providing a framework in which to situate other substreams of research. Uses ethnography, semiotics, literary analysis, and other interpretive methods to examine topics such as brand and store loyalty, atmospheric and shopping dynamics, creation of brand meanings, and other marketplace behaviors.

Leeds School of Business | Marketing

MKTG-7825 (3) Doctoral Seminar: Empirical Models in Marketing

Presents state-of-the-art empirical modeling techniques (both reduced-form and structural) used by marketing scientists, as well as discuss the key findings generated from major empirical studies. Acquaint the class participants with the systematic process of conducting rigorous empirical marketing research, enable them to read and critically review empirical papers in leading marketing journals and, ultimately, start doing independent empirical research. Prereq., a graduate course in regression.

Leeds School of Business | Marketing

MKTG-7830 (3) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to be able to apply knowledge and skills to problems in marketing. Gives special attention to development of thesis topics.

Leeds School of Business | Marketing

MKTG-8820 (1-6) Doctoral Seminar: Special Topics

Studies marketing literature on a topic or topics selected by instructor. Examples include marketing history, international marketing management, marketing environment, marketing of high

technology products, and marketing models.

Leeds School of Business | Marketing

MKTG-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Marketing

MKTG-8990 (1-10) Doctoral Thesis

Leeds School of Business | Marketing

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Courses

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INBU-3300 (3) International Business and Management

This survey course takes a broad and comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international management, including trade practices, country penetration strategies, international finance and accounting, marketing across cultures, global service and manufacturing operations, cultural and legal differences, ethical and sustainability issues, and global competitive strategy. Prereq., 52 hours completed. Formerly INBU 4300. Prerequisites: Restricted to Business or International Affairs majors with 52-180 units completed.

[Leeds School of Business](#) [International Business](#)

INBU-3450 (3) International Marketing

Describes the economic, geographic, political, and social forces that have shaped and continue to define global markets. Examines topics critical to success in international markets, including assessment of a firm's international capabilities, techniques for gauging the potential of international markets, international segmentation approaches, and alternative arrangements for entering foreign markets. Compares and contrasts product, price, distribution, logistics, promotion, and research decisions made in global versus domestic markets. Introduces students to financial arrangements characteristic of international marketing, including exchange rates and controls, balance-of-payment principles, import licensing agreements and tariffs. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed. Prereq., BCOR 2400. Same as INBU 5100. Formerly MKTG 3450. Prerequisites: Requires pre-requisite class of BCOR 2400. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed.

[Leeds School of Business](#) [International Business](#)

INBU-4200 (3) International Financial Management

Examines the financial policies and problems associated with firms doing business internationally. Topics include the foreign exchange environment, country risk, managing foreign exchange exposure, international working capital management, international capital budgeting, and international financial markets. Prereqs., BCOR 1020, 2000, and 2200. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2200. Restricted to Business or IAFS Majors with 52-180 units completed.

[Leeds School of Business](#) [International Business](#)

INBU-4825 (1-6) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in International Business Entrepreneurship. Prerequisites: Restricted to students with 57-86 credits (Junior).

Leeds School of Business | International Business

INBU-4900 (1-12) Independent Study

Prereq., instructor consent. Departmental form required.

Leeds School of Business | International Business

INBU-5100 (3) International Business and Marketing

Same as MKTG 3450.

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INBU-3300 (3) International Business and Management

This survey course takes a broad and comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international management, including trade practices, country penetration strategies, international finance and accounting, marketing across cultures, global service and manufacturing operations, cultural and legal differences, ethical and sustainability issues, and global competitive strategy. Prereq., 52 hours completed. Formerly INBU 4300. Prerequisites: Restricted to Business or International Affairs majors with 52-180 units completed.

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INBU-3450 (3) International Marketing

Describes the economic, geographic, political, and social forces that have shaped and continue to define global markets. Examines topics critical to success in international markets, including assessment of a firm's international capabilities, techniques for gauging the potential of international markets, international segmentation approaches, and alternative arrangements for entering foreign markets. Compares and contrasts product, price, distribution, logistics, promotion, and research decisions made in global versus domestic markets. Introduces students to financial arrangements characteristic of international marketing, including exchange rates and controls, balance-of-payment principles, import licensing agreements and tariffs. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed. Prereq., BCOR 2400. Same as INBU 5100. Formerly MKTG 3450. Prerequisites: Requires pre-requisite class of BCOR 2400. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed.

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Courses

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CESR-4000 (1) Leadership Challenges I: Exercises in Moral Courage

Part one of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Recommended prereq., BCOR 3010. By instructor recommendation only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Leeds School of Business](#) | [Curriculum Emphasis on Social Responsibility](#)

CESR-4001 (2) Leadership Challenges II: Exercises in Moral Courage

Continuation of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Prereq., CESR 4000. Recommended prereq., BCOR 3010. By instructor recommendation only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Leeds School of Business](#) | [Curriculum Emphasis on Social Responsibility](#)

CESR-4005 (3) Business Solutions for the Developing World: Learning through Service

Students work in teams to provide business advice to social entrepreneurs, social ventures and Peace Corps volunteers who are working to solve global social and environmental problems. The primary objective of the class is to provide student with practical knowledge and experience in developing proactive, sustainable business strategies to meet the needs of the poor and to encourage students to think critically about how business can make an impact on global poverty. Prereq. or coreq., BCOR 3010. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) | [Curriculum Emphasis on Social Responsibility](#)

CESR-4010 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to students with 60-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4821 (3) Values & Power of the Consumer in Society

As a critical stakeholder group, consumers have substantial power to shape business behavior. Students will develop an understanding of the roles business can play in society, and the options and limitations that consumers have to influence business by exerting their purchasing power. This class is exclusively for non-business majors and will not count toward the business major or business minor. Prerequisites: Open to Non Business and Non Sponsored Students.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Social Responsibility. Prereq., BCOR 3010. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current

literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as ACCT 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

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CESR-4000 (1) Leadership Challenges I: Exercises in Moral Courage

Part one of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Recommended prereq., BCOR 3010. By instructor recommendation only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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CESR-4001 (2) Leadership Challenges II: Exercises in Moral Courage

Continuation of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Prereq., CESR 4000. Recommended prereq., BCOR 3010. By instructor recommendation only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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CESR-4005 (3) Business Solutions for the Developing World: Learning through Service

Students work in teams to provide business advice to social entrepreneurs, social ventures and Peace Corps volunteers who are working to solve global social and environmental problems. The primary objective of the class is to provide student with practical knowledge and experience in developing proactive, sustainable business strategies to meet the needs of the poor and to encourage students to think critically about how business can make an impact on global poverty. Prereq. or coreq., BCOR 3010. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

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CESR-4010 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

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BSLW-4120 (3) Advanced Business Law

Continuation of BCORr 3000. Covers sales and lease transactions, negotiable instruments, creditor rights and bankruptcy, secured transactions, agency, business organizations, protection of property, and other advanced topics in legal and regulatory environments. BCOR 3000 and BSLW 4120/5120 together cover the business law topics tested on the CPA exam. Prereqs., BCOR 3000 and junior standing. Same as BSLW 5120. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Business Law

BSLW-4820 (1-3) Topics in Business Law

Experimental course offered irregularly for purpose of presenting new subject matter in business law.

Leeds School of Business | Business Law

BSLW-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Law. Restricted to juniors/seniors.

Leeds School of Business | Business Law

BSLW-4900 (1-3) Independent Study

Leeds School of Business | Business Law

BSLW-5120 (3) Advanced Business Law

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting-Taxation or Business Administration graduate students only. Same as BSLW 4120. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Business Law

BSLW-6900 (1-6) Independent Study

Prerequisites: Restricted to Business graduate students only.

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BSLW-4120 (3) Advanced Business Law

Continuation of BCORr 3000. Covers sales and lease transactions, negotiable instruments, creditor rights and bankruptcy, secured transactions, agency, business organizations, protection of property, and other advanced topics in legal and regulatory environments. BCOR 3000 and BSLW 4120/5120 together cover the business law topics tested on the CPA exam. Prereqs., BCOR 3000 and junior standing. Same as BSLW 5120. Prerequisites: Restricted to Business majors with 52-180 units completed.

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CESR-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to students with 60-180 units completed.

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INBU-4200 (3) International Financial Management

Examines the financial policies and problems associated with firms doing business internationally. Topics include the foreign exchange environment, country risk, managing foreign exchange exposure, international working capital management, international capital budgeting, and international financial markets. Prereqs., BCOR 1020, 2000, and 2200. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2200. Restricted to Business or IAFS Majors with 52-180 units completed.

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BSLW-4820 (1-3) Topics in Business Law

Experimental course offered irregularly for purpose of presenting new subject matter in business law.

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CESR-4821 (3) Values & Power of the Consumer in Society

As a critical stakeholder group, consumers have substantial power to shape business behavior. Students will develop an understanding of the roles business can play in society, and the options and limitations that consumers have to influence business by exerting their purchasing power. This class is exclusively for non-business majors and will not count toward the business major or business minor. Prerequisites: Open to Non Business and Non Sponsored Students.

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BSLW-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Law. Restricted to juniors/seniors.

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CESR-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Social Responsibility. Prereq., BCOR 3010. Restricted to BUSN majors with minimum 52 units completed.
Prerequisites: Restricted to Business majors with 52-180 units completed.

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INBU-4825 (1-6) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in International Business Entrepreneurship. Prerequisites: Restricted to students with 57-86 credits (Junior).

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CESR-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

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CESR-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as ACCT 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

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BSLW-4900 (1-3) Independent Study

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INBU-4900 (1-12) Independent Study

Prereq., instructor consent. Departmental form required.

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INBU-5100 (3) International Business and Marketing

Same as MKTG 3450.

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BSLW-5120 (3) Advanced Business Law

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting-Taxation or Business Administration graduate students only. Same as BSLW 4120. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereq., ACCT 3220. Same as ACCT 4800. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-5820 (3) Topics in Business

Prereq., ACCT 3230 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4820. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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MBAC-6000 (3) Socially Responsible Enterprise

Prepares future managers for confronting the truly difficult situations that arise when deploying economic resources, altering the physical environment, and making decisions that affect the lives of investors, employees, community members and other stakeholders. Case-based challenges will be examined in a broad range of contexts, and essential ethical concepts will be explored by drawing on theories from ethics, sociology, economics, political science and philosophy. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#)
[Master of Business Administration](#)
[MBA: Core Courses](#)

MBAC-6010 (3) Managerial Economics

Studies the elements of the business firm's fundamental problem---how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#)
[Master of Business Administration](#)
[MBA: Core Courses](#)

MBAC-6011 (2) Managerial Economics 1

Studies the elements of the business firm's fundamental problem---how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of the relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#)
[Master of Business Administration](#)
[MBA: Core Courses](#)

MBAC-6012 (2) Managerial Economics 2

See MBAC 6011. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6020 (3) Financial Accounting

Introduces the financial reporting system used by business organizations to convey information about their economic affairs. Develops an understanding of financial reports and what they tell about a business enterprise. Focuses on how alternative accounting measurement rules represent different economic events in financial reports. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6030 (3) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory and sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers, and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6031 (2) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory, sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6050 (3) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAX-6051 (2) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAC-6052 (3) Capstone Projects

Provides students with an opportunity to focus on a specific project which would have a positive strategic impact on the company for which they work. For those who have entrepreneurial aspirations, this project could result in a business plan for a new venture. Final deliverable should address marketing, financial, operational, and management implications and strategic impact. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6060 (3) Corporate Finance

Analyzes the implications of modern finance theory for the major decisions faced by corporate financial managers. Develops the basic skills necessary to apply financial concepts to the various problems faced by a firm. Includes capital budgeting, capital structure, long term financing, short term financial management, and financial planning topics. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6080 (3) Decision Modeling and Applications

Integrates topics from decision analysis and operations management as they relate to modeling management decisions. Field projects involve the university, local companies, and/or government agencies. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6090 (3) Marketing Management

Provides a solid foundation of marketing knowledge by focusing on principles of marketing. Introduces the role that marketing cases play in advancing understanding and skill development in the field of marketing. Case discussions illustrate concepts discussed, and case studies are used to introduce the marketing decision making process. Emphasizes the international nature of marketing, as well as the importance of analysis and the understanding of the economic, demographic, political-legal-regulatory, sociocultural, technological, and natural environments. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6098 (1) Business Writing

Develops business writing skills, with specific focus on style rather than content. Assists students in improving their writing skills in order to be effective communicators in their professional careers. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Core Courses |
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MBAC-6099 (2) Professional Development

Develops presentation and interview skills to help students become effective communicators in their professional careers and to acquaint themselves well in the job placement process.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6100 (3) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures. Allows students to assess their fit with entrepreneurial firms. Key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereq., MBAC 6020 or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship |
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MBAX-6101 (2) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures; allows students to assess their "fit" with entrepreneurial firms. A key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship |
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MBAX-6110 (3) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship |
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MBAX-6111 (2) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship |
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MBAX-6120 (3) Entrepreneurial Marketing

Addresses the marketing challenges that face the entrepreneur or start up firm with a limited budget. From initially positioning the company and its products to marketing that position to key

shareholders for a new venture, to establishing channels of distribution and reaching the consumer, take a specialized look at the development and implementation of a marketing plan. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6170 (3) Business Plan Preparation

Completion of a sophisticated business plan within task groups from concept through all the elements of a professionally written business plan. Provides students high interaction with businesses and entrepreneurs. Prereq., MBAC 6020 and MBAX 6100, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6171 (2) Business Plan Preparation

In this course students will be responsible for the completion of a sophisticated business plan within task groups from the concept through all the elements of a professionally written business plan. The course provides students high interaction with businesses and entrepreneurs. Prereqs., MBAC core courses and MBAX 6100, or instructor consent. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6180 (3) Startup Execution

Covers a variety of topics in applied entrepreneurship, including the steps required to legally launch a business and procedures for executing standard business functions (organization, marketing, sales, advertising, operations, team building, and finance) with minimal resources (cash, personnel, and equipment). Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6190 (3) Projects in Entrepreneurial Companies

Limited to 12 students per section, each student is matched with an entrepreneurial company to complete a project that is key to company strategy. Students experience total company environment from the top management level through attending management meetings and interacting with cross-functional managers and employees. E-mail and face-to-face meetings result in discussing opportunities and issues resulting from experiences in companies. Prereq., MBAX 6100. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6200 (3) Advanced Corporate Finance

Covers the theory of asset pricing, which is then applied to capital budgeting, capital structure choice, mergers and acquisitions, and risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

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MBAC-6000 (3) Socially Responsible Enterprise

Prepares future managers for confronting the truly difficult situations that arise when deploying economic resources, altering the physical environment, and making decisions that affect the lives of investors, employees, community members and other stakeholders. Case-based challenges will be examined in a broad range of contexts, and essential ethical concepts will be explored by drawing on theories from ethics, sociology, economics, political science and philosophy. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6010 (3) Managerial Economics

Studies the elements of the business firm's fundamental problem---how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6011 (2) Managerial Economics 1

Studies the elements of the business firm's fundamental problem---how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of the relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6012 (2) Managerial Economics 2

See MBAC 6011. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6020 (3) Financial Accounting

Introduces the financial reporting system used by business organizations to convey information about their economic affairs. Develops an understanding of financial reports and what they tell about a business enterprise. Focuses on how alternative accounting measurement rules represent different economic events in financial reports. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6030 (3) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory and sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers, and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6031 (2) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory, sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6050 (3) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Core Courses

MBAC-6052 (3) Capstone Projects

Provides students with an opportunity to focus on a specific project which would have a positive strategic impact on the company for which they work. For those who have entrepreneurial aspirations, this project could result in a business plan for a new venture. Final deliverable should address marketing, financial, operational, and management implications and strategic impact.

Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Core Courses |
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MBAC-6060 (3) Corporate Finance

Analyzes the implications of modern finance theory for the major decisions faced by corporate financial managers. Develops the basic skills necessary to apply financial concepts to the various problems faced by a firm. Includes capital budgeting, capital structure, long term financing, short term financial management, and financial planning topics. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Core Courses |
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MBAC-6080 (3) Decision Modeling and Applications

Integrates topics from decision analysis and operations management as they relate to modeling management decisions. Field projects involve the university, local companies, and/or government agencies. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6090 (3) Marketing Management

Provides a solid foundation of marketing knowledge by focusing on principles of marketing. Introduces the role that marketing cases play in advancing understanding and skill development in the field of marketing. Case discussions illustrate concepts discussed, and case studies are used to introduce the marketing decision making process. Emphasizes the international nature of marketing, as well as the importance of analysis and the understanding of the economic, demographic, political-legal-regulatory, sociocultural, technological, and natural environments. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Core Courses |
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MBAC-6098 (1) Business Writing

Develops business writing skills, with specific focus on style rather than content. Assists students in improving their writing skills in order to be effective communicators in their professional careers. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6099 (2) Professional Development

Develops presentation and interview skills to help students become effective communicators in their professional careers and to acquaint themselves well in the job placement process. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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ACCT-5825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Prereq. ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4825. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6000 (1-4) Academic Internship in Accounting

Offers students the opportunity to gain professional work experience in an accounting or tax position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes lectures and a course paper. Students may not preregister for this course, and they must contact the Director of the concurrent degree program in accounting for approval. Restricted to graduate students only. Prereq., ACCT 3230, at least 90 credit hours of course work and a minimum GPA of 3.00, and instructor consent. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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MBAC-6000 (3) Socially Responsible Enterprise

Prepares future managers for confronting the truly difficult situations that arise when deploying economic resources, altering the physical environment, and making decisions that affect the lives of investors, employees, community members and other stakeholders. Case-based challenges will be examined in a broad range of contexts, and essential ethical concepts will be explored by drawing on theories from ethics, sociology, economics, political science and philosophy. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6010 (3) Managerial Economics

Studies the elements of the business firm's fundamental problem--how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6011 (2) Managerial Economics 1

Studies the elements of the business firm's fundamental problem--how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of the relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6012 (2) Managerial Economics 2

See MBAC 6011. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6020 (3) Financial Accounting

Introduces the financial reporting system used by business organizations to convey information about their economic affairs. Develops an understanding of financial reports and what they tell about a business enterprise. Focuses on how alternative accounting measurement rules represent different economic events in financial reports. Prerequisites: Restricted to Master of Business Administration (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6030 (3) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory and sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers, and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6031 (2) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory, sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6050 (3) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6051 (2) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization.

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MBAX-6051 (2) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization.

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MBAX-6421 (2) IT & Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. This course combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6440 (3) Project Management

Acquaints students with multidisciplinary aspects of project management, including the relationship between schedule, cost and performance. The course uses a hands-on project where the student interacts with a real customer, providing an opportunity to utilize the qualitative and quantitative tools taught in the classroom. At the conclusion of the course, the student may be eligible to apply for a project management certification from Project Management Institute based on previous work experience. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6441 (2) Project Management

Acquaints the student with multidisciplinary aspects of project management, including the relationship between scope, schedule, cost and performance. Uses a hands-on project from your own company, providing an opportunity to utilize the qualitative and quantitative tools taught in the classroom. During the course students will earn hours toward project management certification from the Project Management Institute. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Management |
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MBAX-6450 (3) International Operations Management

Takes a broad comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international operations including trade practices; penetration strategies; financial, marketing, services, and manufacturing operations; ethical and sustainability issues; and global competitive strategy. Compares global business practices in Asia, South America, Europe, and Africa. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Management |
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MBAX-6500 (3) Management of Organizational Change

Explores ways to improve organizations to meet demands of changing environments. Emphasizes theoretical framework and models of organization change, barriers to implementing change and ways to overcome them, and the roles of the change agent and/or consultant. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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| Leeds School of Business | Master of Business Administration | MBA: Management |
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MBAX-6530 (3) Negotiating and Conflict Management

Explores and builds skills for conflict management and negotiation problems faced by managers (e.g., dealing with subordinates, peers, superiors, or clients). Content is relevant to all MBA students, especially those interested in management, accounting, entrepreneurship, finance, and marketing. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6531 (2) Negotiations

Practice the art and science of successful negotiations. Provides students high interaction with businesses and entrepreneurs. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6540 (3) Consulting Skills

Provides an integrative, hands-on exercise in managing change. Develops skills in contracting, collecting, and analyzing data, and writing reports. Teams practice these skills by conducting an organizational diagnosis, consulting project within an organization. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6550 (3) Management of Technology and Innovation

Examines a variety of issues common to management of technology, such as technology strategies, methods of technology transfer, selecting technology standards, managing the research and development process, and encouraging and rewarding innovation. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6560 (3) Executive Leadership

Examines organizational leadership from the executive perspective, including private and public sector firms, and non-profits. Studies how executives lead change and innovation, interact with the top management team, and deal with the board of directors. Topics include governance of the firm, strategies for enhancing executive influence, assessing and understanding diverse leadership styles, and the ethics and responsibilities of an executive. Formerly MBAX 6890. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6561 (2) Executive Leadership

Provides an opportunity to examine leadership from the executive perspective in organizations including private and public sector firms and non-profits. Topics covered include how executives lead change and innovation in organizations, interact with the top management team, deal with the board of directors, leadership issues involved with governance of the firm and strategies for enhancing executive influence. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6801 (3) Global Perspectives Seminar

Provides students with an in-depth perspective about a specific country or region outside the United States. The course can focus on a different region or country each time it is offered. If demand for this type of experience is strong, multiple sections of the course could be offered in a given semester, each focusing on a different region or country. The choice of region and the specific focus of each course would depend on the faculty member teaching the course. May be repeated up to 6 total credit hours. Prereqs., MBAC 6010, 6060 and 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6802 (3) Pricing Strategy and Tactics

Pricing provides the means to capture value. The course covers theories, analytical tools and conceptual frameworks needed for devising price strategy as part of the value proposition for products and services. It draws upon principles from economics, marketing and psychology. Primary and secondary data based analysis is used to understand price response and competitive pricing. Substantive topics include customized pricing, price negotiations, bidding and auctions, price discounting, trade promotion, bundling, behavioral pricing, among others. Prereqs., all MBA core courses. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6804 (3) Leading Effectively in Today's Environment

Explores a set of concepts, models and tools that you can use to lead and manage effectively in today's environment. Covers three key topics: leading change, building success through people, working effectively in a global environment. Provides better understanding of challenges managers face when leading change.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6841 (2) Decision Making for Managers

Covers both behavioral/psychological aspects and analytical approaches to making decisions with multiple objectives. The focus is learning to frame decisions that involve multiple stakeholders with multiple objectives and then learning the various techniques used to evaluate the choices. Influence diagrams, decision heuristics using spreadsheets, and decision trees will all be explored with user-friendly decision tree software. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6844 (2) Operations Management

Producing a quality product or delivering a quality service is a fundamental task for any company or organization. Managing the transformation of inputs (raw materials, labor, capital) into outputs (goods and services) falls under the heading of Operations Management. In most organizations, operations comprise 80 percent of the costs, 80 percent of the personnel, 80 percent of the capital employed --the effective and efficient use of these resources is consequently central to the success of the firm. This course is about using operations to compete and win sustainable competitive advantage in your marketplace. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6801 (3) Global Perspectives Seminar

Provides students with an in-depth perspective about a specific country or region outside the United States. The course can focus on a different region or country each time it is offered. If demand for this type of experience is strong, multiple sections of the course could be offered in a given semester, each focusing on a different region or country. The choice of region and the specific focus of each course would depend on the faculty member teaching the course. May be repeated up to 6 total credit hours. Prereqs., MBAC 6010, 6060 and 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6802 (3) Pricing Strategy and Tactics

Pricing provides the means to capture value. The course covers theories, analytical tools and conceptual frameworks needed for devising price strategy as part of the value proposition for products and services. It draws upon principles from economics, marketing and psychology. Primary and secondary data based analysis is used to understand price response and competitive pricing. Substantive topics include customized pricing, price negotiations, bidding and auctions, price discounting, trade promotion, bundling, behavioral pricing, among others. Prereqs., all MBA core courses. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6803 (3) Microfinance

Links financial markets with entrepreneurship to create a platform for the poor to start their own business. Participants learn how to combine technical knowledge of finance and international business development with the socially and ethically important microfinance field to help with sustainable economic development and reduce poverty worldwide, including the United States. Prerequisites: Restricted to Graduate Students only.

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MBAX-6804 (3) Leading Effectively in Today's Environment

Explores a set of concepts, models and tools that you can use to lead and manage effectively in today's environment. Covers three key topics: leading change, building success through people, working effectively in a global environment. Provides better understanding of challenges managers face when leading change.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6805 (3) Entrepreneurship and the Venture Capital Process

This course will be articulated into two main parts, tightly interrelated: Entrepreneurship and the Venture Capital Process. The first part has the objective to lead the students to understand what venture capital is, how it works, how you structure capital raising, and how it helps entrepreneurial initiatives. The second part concerns how venture capitalists manage their operations, secure investment deals, and maintain their portfolios. Prereqs., MBAC 6011, 6020, 6031, 6040, 6060, 6080, and 6090. Restricted to LAWS students and graduate students in business.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6815 (3) Sustainable Real Estate

Explores techniques, processes, tools, and capabilities required to manage growth and land use change in the light of shifts beginning to transform the way we approach land use and real estate development. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Real Estate

ACCT-6820 (1-3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq. varies.

Leeds School of Business | Accounting

BADM-6820 (1-3) Topics in Business Administration

Offered irregularly to provide opportunity to investigate new topics in business administration.

Leeds School of Business | Business Administration

FNCE-6820 (1-3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

Leeds School of Business | Finance

OPIM-6820 (3) Special Topics in Systems

Offered irregularly to provide opportunity for investigation into new frontiers in systems. May be repeated up to 6 total credit hours. Formerly SYST 6820.

Leeds School of Business | Operations and Information Management

REAL-6820 (3-6) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in real estate.

Leeds School of Business | Real Estate

MBAX-6825 (3) Topics in Sustainable Business

Provides a comprehensive overview of the core concepts, strategies and practices of sustainable business, emphasizing innovative business practices and entrepreneurial opportunities created by the sustainability "movement". The topic of sustainability will be approached from the unique perspectives of seven core disciplines of business administration: economics, strategy, ethics, organizational behavior, operations, finance and accounting, and marketing. Prereq., 1st semester MBA core courses. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Social Responsibility

MBAX-6841 (2) Decision Making for Managers

Covers both behavioral/psychological aspects and analytical approaches to making decisions with multiple objectives. The focus is learning to frame decisions that involve multiple stakeholders with multiple objectives and then learning the various techniques used to evaluate the choices. Influence diagrams, decision heuristics using spreadsheets, and decision trees will all be explored with user-friendly decision tree software. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6843 (3) Supply Chain and Operations Analytics

Analyzes key issues related to the design and management of operations and supply chains using quantitative tools such as linear, integer, and non-linear programming, regression, and statistical analysis. Covers important topics such as forecasting, aggregate planning, inventory theory, transportation, risk pooling, production control and scheduling, and facilities location, among others. Uses mathematical modeling, spreadsheet analysis, case studies, and pedagogical simulations to deliver material. Prereqs., MBAC 6031 and 6080. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Operations & Prod Mgmt

MBAX-6844 (2) Operations Management

Producing a quality product or delivering a quality service is a fundamental task for any company or organization. Managing the transformation of inputs (raw materials, labor, capital) into outputs

(goods and services) falls under the heading of Operations Management. In most organizations, operations comprise 80 percent of the costs, 80 percent of the personnel, 80 percent of the capital employed --the effective and efficient use of these resources is consequently central to the success of the firm. This course is about using operations to compete and win sustainable competitive advantage in your marketplace. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6845 (3) Social Entrepreneurship in Emerging Markets

Social entrepreneurs adopt business approaches to solving global, social and environmental problems that have not been effectively addressed by government, business or traditional nonprofits. The course provides a framework for student teams to assist social entrepreneurs in developing countries, helping them achieve their social mission while operating sustainably and with measurable impact. Prereqs., MBAC 6010, 6060, and 6090. Recommended prereq., MBAX 6170. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Social Responsibility

MBAX-6885 (3) Interpreting the Economic Environment

The macroeconomic environment is vitally important to business managers regardless of their area of focus. Most macroeconomic events portend future economic changes that influence business and/or industry. Develops a basic understanding of the macroeconomy and its relationship to an individual business or industry through understanding macroeconomic concepts and data sources, developing a basic model, understanding relevant policy instruments, and integrating this information into the global economy. Prereq., MBAC 6010. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

ACCT-6900 (1-6) Independent Study

Requires prior consent of instructor under whose direction study is taken. Departmental form required. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

BSLW-6900 (1-6) Independent Study

Prerequisites: Restricted to Business graduate students only.

Leeds School of Business | Business Law

FNCE-6900 (1-6) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Finance

MKTG-6900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Marketing

OPIM-6900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors who desire to study an advanced topic. Departmental form required. Formerly SYST 6900.

Leeds School of Business | Operations and Information Management

OPMG-6900 (1-3) Independent Study

Leeds School of Business | Master of Business Administration | MBA: Operations & Prod Mgmt

REAL-6900 (1-3) Independent Study

Students must have consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Real Estate

BADM-6930 (3) Commercializing Sustainable Energy Technologies

Addresses the opportunities and problems of commercializing new renewable energy technologies. Focuses on energy markets, opportunity identification, life cycle analysis, policy economics, project financing, and economic analysis as they relate to bringing renewable energy technologies to market.

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OPIM-6070 (3) Survey of Operations Research

Applications oriented survey of operations research topics including linear and integer programming, network analysis, dynamic programming, nonlinear programming, decision analysis, Markov chain and Markovian decision models, queuing theory, and simulation. Same as EMEN 5600. Formerly SYST 6070.

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OPIM-6080 (3) Operations Management

Covers demand forecasting, capacity management, scheduling, inventory planning and management, production planning and control, materials requirements planning, just-in-time production systems, product design and process selection, elements of statistical process control, service operations, and quantitative techniques for operations decision making. Similar to EMEN 5500. Formerly SYST 6080.

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OPIM-6820 (3) Special Topics in Systems

Offered irregularly to provide opportunity for investigation into new frontiers in systems. May be repeated up to 6 total credit hours. Formerly SYST 6820.

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OPIM-6900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors who desire to study an advanced topic. Departmental form required. Formerly SYST 6900.

Leeds School of Business | Operations and Information Management

OPIM-6930 (3) Assessing Sustainable Energy Technologies

Focuses on the commercialization prospects of emerging energy technologies, including solar, wind, biomass, oceanic, geothermal, hydropower, fuel cell (hydrogen), nuclear, and other more exotic energy sources. Investigates the technology feasibility, economic viability and progress of each technology, as well as its economic opportunities and challenges.

Leeds School of Business | Operations and Information Management

OPIM-6940 (1) Masters Candidate

Leeds School of Business | Operations and Information Management

OPIM-6950 (1-6) Master's Thesis

Leeds School of Business | Operations and Information Management

OPIM-7110 (3) Simulation Modeling and Analysis

Introduces the concepts of simulation modeling. Provides practical experience with real examples using popular commercial simulation packages such as Arena or Extend. Emphasizes discrete-event simulation but also covers topics in Monte Carlo simulation and system dynamics. Practical examples from operations management, manufacturing, and services are used to give students an appreciation for the wide scope of application and the robust nature of simulation modeling in the context of decision making. Formerly SYST 7110.

Leeds School of Business | Operations and Information Management

OPIM-7120 (3) Discrete Optimization

Covers the modeling and solution of discrete problems that arise in business and engineering. Classical techniques such as cutting planes and branch and bound are covered. Emphasizes the application of metaheuristic procedures, such as tabu search and evolutionary approaches, to the solution of practical combinatorial optimization problems. Formerly SYST 7120.

Leeds School of Business | Operations and Information Management

OPIM-7330 (3) Advanced Operations Management Modeling

Covers concepts, models, and solution techniques relevant to the management of the processes required to provide goods or services to consumers. Emphasizes supply chain systems topics such as production, inventory, distribution, and scheduling. Management science and operations research methodology is also applied to problems such as facility capacity planning, facility design, and location analysis. Formerly SYST 7330.

Leeds School of Business | Operations and Information Management

OPIM-7400 (3) Stochastic Dynamic Programming with Applications

Covers the basic models and solution techniques for stochastic dynamic programs with finite or infinite number of stages. Application domains include, among other, revenue management and pricing, manufacturing, supply chains, service systems, and economics. Approximate solution techniques for problems involving large state/decision spaces and/or complex dynamics over time will also be discussed. Recommended prereq., an introductory course in Optimization and Probability. Restricted to Ph.D students Prerequisites: Restricted to Graduate Students only.

Leeds School of Business | Operations and Information Management

OPIM-7800 (3) Doctoral Proseminar in Systems

Provides systems doctoral students with an orientation to current research and the academic discipline in operations and information systems. Familiarizes students with key schools of thought in the field, provides background on reference disciplines, examines significant research streams, and helps students begin developing their own area of interest. Formerly SYST 7800.

Leeds School of Business | Operations and Information Management

OPIM-7805 (3) Foundations of Research in Information Systems

Examines foundations of information systems research, including classic readings in information systems and its reference disciplines, different research approaches, processes of research, and classic and contemporary readings in major topics in information systems. Prereq., PhD standing or instructor consent. Formerly SYST 7805.

Leeds School of Business | Operations and Information Management

OPIM-7810 (3) Technical Topics in Information Systems Research

Examines in depth a selection of topics in technical areas of information systems. Includes theoretical perspectives for technical topics, critical perspectives on past and current research, appropriate methods for examining technical topics, and development of students' ability to identify and develop research topics in technical areas. Prereq., PhD standing or instructor consent. Formerly SYST 7810.

Leeds School of Business | Operations and Information Management

OPIM-7815 (3) Behavioral Topics in Information Systems Research

Covers both basic and advanced topics. Develops skill in designing, evaluating, and understanding both quantitative and qualitative research methods. Includes the development of research proposals, making and justifying methodological choices, writing research reports, and understanding how to publish in information systems. Prereq., PhD standing or instructor consent. Formerly SYST 7815. Prerequisites: Restricted to Graduate Students only.

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OPIM-7820 (3) Advanced Research in Information Systems

Examines advanced topics in information systems research, focusing on the electronic era and ebusiness. Examines foundations of ebusiness, including basic technical, organizational, and behavioral foundations. Covers leading edge research from both topical and methodological perspectives. Focuses on methods appropriate for studying ebusiness and examines future research directions. Prereq., PhD standing or instructor consent. Formerly SYST 7820.

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MBAC-6052 (3) Capstone Projects

Provides students with an opportunity to focus on a specific project which would have a positive strategic impact on the company for which they work. For those who have entrepreneurial aspirations, this project could result in a business plan for a new venture. Final deliverable should address marketing, financial, operational, and management implications and strategic impact.

Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAC-6060 (3) Corporate Finance

Analyzes the implications of modern finance theory for the major decisions faced by corporate financial managers. Develops the basic skills necessary to apply financial concepts to the various problems faced by a firm. Includes capital budgeting, capital structure, long term financing, short term financial management, and financial planning topics. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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OPIM-6070 (3) Survey of Operations Research

Applications oriented survey of operations research topics including linear and integer programming, network analysis, dynamic programming, nonlinear programming, decision analysis, Markov chain and Markovian decision models, queuing theory, and simulation. Same as EMEN 5600. Formerly SYST 6070.

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MBAC-6080 (3) Decision Modeling and Applications

Integrates topics from decision analysis and operations management as they relate to modeling management decisions. Field projects involve the university, local companies, and/or government agencies. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6100 (3) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures. Allows students to assess their fit with entrepreneurial firms. Key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereq., MBAC 6020 or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6101 (2) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures; allows students to assess their "fit" with entrepreneurial firms. A key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6110 (3) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6111 (2) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6120 (3) Entrepreneurial Marketing

Addresses the marketing challenges that face the entrepreneur or start up firm with a limited budget. From initially positioning the company and its products to marketing that position to key shareholders for a new venture, to establishing channels of distribution and reaching the consumer, take a specialized look at the development and implementation of a marketing plan.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6170 (3) Business Plan Preparation

Completion of a sophisticated business plan within task groups from concept through all the elements of a professionally written business plan. Provides students high interaction with businesses and entrepreneurs. Prereq., MBAC 6020 and MBAX 6100, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6171 (2) Business Plan Preparation

In this course students will be responsible for the completion of a sophisticated business plan within task groups from the concept through all the elements of a professionally written business plan. The course provides students high interaction with businesses and entrepreneurs. Prereqs., MBAC core courses and MBAX 6100, or instructor consent. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6180 (3) Startup Execution

Covers a variety of topics in applied entrepreneurship, including the steps required to legally launch a business and procedures for executing standard business functions (organization, marketing, sales, advertising, operations, team building, and finance) with minimal resources (cash, personnel, and equipment). Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6190 (3) Projects in Entrepreneurial Companies

Limited to 12 students per section, each student is matched with an entrepreneurial company to complete a project that is key to company strategy. Students experience total company environment from the top management level through attending management meetings and interacting with cross-functional managers and employees. E-mail and face-to-face meetings result in discussing opportunities and issues resulting from experiences in companies. Prereq., MBAX 6100. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

MBAX-6805 (3) Entrepreneurship and the Venture Capital Process

This course will be articulated into two main parts, tightly interrelated: Entrepreneurship and the Venture Capital Process. The first part has the objective to lead the students to understand what venture capital is, how it works, how you structure capital raising, and how it helps entrepreneurial initiatives. The second part concerns how venture capitalists manage their operations, secure investment deals, and maintain their portfolios. Prereqs., MBAC 6011, 6020, 6031, 6040, 6060, 6080, and 6090. Restricted to LAWS students and graduate students in business. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Entrepreneurship

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OPIM-6080 (3) Operations Management

Covers demand forecasting, capacity management, scheduling, inventory planning and management, production planning and control, materials requirements planning, just-in-time production systems, product design and process selection, elements of statistical process control, service operations, and quantitative techniques for operations decision making. Similar to EMEN 5500. Formerly SYST 6080.

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MBAC-6090 (3) Marketing Management

Provides a solid foundation of marketing knowledge by focusing on principles of marketing. Introduces the role that marketing cases play in advancing understanding and skill development in the field of marketing. Case discussions illustrate concepts discussed, and case studies are used to introduce the marketing decision making process. Emphasizes the international nature of marketing, as well as the importance of analysis and the understanding of the economic, demographic, political-legal-regulatory, sociocultural, technological, and natural environments. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6098 (1) Business Writing

Develops business writing skills, with specific focus on style rather than content. Assists students in improving their writing skills in order to be effective communicators in their professional careers.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6099 (2) Professional Development

Develops presentation and interview skills to help students become effective communicators in their professional careers and to acquaint themselves well in the job placement process.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6100 (3) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures. Allows students to assess their fit with entrepreneurial firms. Key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereq., MBAC 6020 or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6101 (2) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures; allows students to assess their "fit" with entrepreneurial firms. A key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6110 (3) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6111 (2) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6120 (3) Entrepreneurial Marketing

Addresses the marketing challenges that face the entrepreneur or start up firm with a limited budget. From initially positioning the company and its products to marketing that position to key shareholders for a new venture, to establishing channels of distribution and reaching the consumer, take a specialized look at the development and implementation of a marketing plan.

Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6170 (3) Business Plan Preparation

Completion of a sophisticated business plan within task groups from concept through all the elements of a professionally written business plan. Provides students high interaction with businesses and entrepreneurs. Prereq., MBAC 6020 and MBAX 6100, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6171 (2) Business Plan Preparation

In this course students will be responsible for the completion of a sophisticated business plan within task groups from the concept through all the elements of a professionally written business plan. The course provides students high interaction with businesses and entrepreneurs. Prereqs., MBAC core courses and MBAX 6100, or instructor consent. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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Courses

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College/School**Department****Category**

Search by Course Number

Subject**Number**

MBAX-6200 (3) Advanced Corporate Finance

Covers the theory of asset pricing, which is then applied to capital budgeting, capital structure choice, mergers and acquisitions, and risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6210 (3) Applied Financial Management

Analyzes the financial condition, planning, and control of current assets, current liabilities, and long-term financial arrangements. Topics include financial planning, managing working capital, short- and long-term financing, capital budgeting, valuation, and capital structure policies. Case studies are emphasized. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6211 (2) Applied Financial Management

Focuses on how to apply key concepts in finance to real-world situations. Topics include valuation, capital structure, highly leveraged transactions, and financial distress and bankruptcy. Heavy emphasis on how to perform various kinds of valuations. Mixture of lectures and case discussions. Prereq., MBAC 6060. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6220 (3) Investment Management and Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6221 (2) Investment Management & Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereqs., MBAC core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6230 (3) International Financial Management

Examines the financial procedures, policies, and risks faced by firms conducting business internationally. Topics include examining the international finance environment, managing foreign exchange risk exposure, managing international working capital, conducting analysis, and developing an understanding of international financial markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6240 (3) Financial Markets and Institutions

Deals with the economics of financial markets and the management of financial institutions. Covers factors influencing the cost and availability of capital for financing business firms. Examines both domestic and international markets and institutions. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6250 (3) Derivative Securities

Derivatives, like options, futures, forwards, and swaps, encompass all aspects of finance. Topics cover the characteristics, valuation, and trading strategies associated with derivatives as well as their use in risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6260 (3) Fixed Income Investing

Fixed income securities are those that nominally promise a fixed stream of payments. They include government and corporate long and short term debt issues that far exceed the amount of corporate stock issues, as well as long term personal debt (i.e., home mortgages). Develops practical analytical tools for describing these securities, the markets where they are traded, and their purchase and management by financial intermediaries. Stresses the huge market for U.S. government debt, because it provides a foundation for the development of more specialized tools used in other markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6310 (3) Marketing Strategy

Marketing strategy has developed into an increasingly critical managerial activity as businesses recognize the importance of creating customer value and being customer oriented. Discusses key elements of successful marketing strategy including market/customer analysis and competitor analysis, and identifies strategic approaches managers may adopt to succeed in today's highly competitive and rapidly changing business environment. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6330 (3) Market Intelligence

Market Intelligence is a decision-oriented course geared toward gathering, analyzing, and interpreting data about markets and customers. Students learn how to: define the marketing problem and determine what information is needed to make the decision; acquire trustworthy and relevant data and judge its quality; analyze the data and acquire the necessary knowledge to make certain classic types of marketing decisions. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6340 (3) Marketing Field Project

Develops skills in marketing decision making. Teams design and complete a project located at a client business or other organization in the metropolitan area. Team members organize and assign responsibilities, interact with middle- and top-level managers, apply quantitative and behavioral tools presented in marketing and other courses, meet deadlines, and present results of project activities. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6350 (3) Digital Marketing

Covers a variety of ways an organization uses online presence to support its goals. The main approaches covered are search engine optimization (SEO); online advertising, especially search ads (also called search engine marketing, SEM); and social media. SEO is setting up your website so that the right people can find you. Emphasis placed on selecting keywords and tracking responses to changes to a website. SEM refers to paid ("sponsored") ads on search engines. We will focus on AdWords. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6360 (3) New Product Development

Provides a better understanding of the new-product development process, highlighting the inherent risks and strategies for overcoming them. Using a combination of lectures, cases, and a project, this course examines the process of designing, testing, and launching new products. Emphasizes the interplay between creativity and analytical marketing research throughout the development process. Also covers branding issues, such as brand extensions and their impact on brand equity. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6803 (3) Microfinance

Links financial markets with entrepreneurship to create a platform for the poor to start their own business. Participants learn how to combine technical knowledge of finance and international business development with the socially and ethically important microfinance field to help with sustainable economic development and reduce poverty worldwide, including the United States. Prerequisites: Restricted to Graduate Students only.

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MBAX-6885 (3) Interpreting the Economic Environment

The macroeconomic environment is vitally important to business managers regardless of their area of focus. Most macroeconomic events portend future economic changes that influence business and/or industry. Develops a basic understanding of the macroeconomy and its relationship to an individual business or industry through understanding macroeconomic concepts and data sources, developing a basic model, understanding relevant policy instruments, and integrating this information into the global economy. Prereq., MBAC 6010. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6180 (3) Startup Execution

Covers a variety of topics in applied entrepreneurship, including the steps required to legally launch a business and procedures for executing standard business functions (organization, marketing, sales, advertising, operations, team building, and finance) with minimal resources (cash, personnel, and equipment). Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6190 (3) Projects in Entrepreneurial Companies

Limited to 12 students per section, each student is matched with an entrepreneurial company to complete a project that is key to company strategy. Students experience total company environment from the top management level through attending management meetings and interacting with cross-functional managers and employees. E-mail and face-to-face meetings result in discussing opportunities and issues resulting from experiences in companies. Prereq., MBAX 6100. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6200 (3) Advanced Corporate Finance

Covers the theory of asset pricing, which is then applied to capital budgeting, capital structure choice, mergers and acquisitions, and risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6210 (3) Applied Financial Management

Analyzes the financial condition, planning, and control of current assets, current liabilities, and long-term financial arrangements. Topics include financial planning, managing working capital, short- and long-term financing, capital budgeting, valuation, and capital structure policies. Case studies are emphasized. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Administration (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6211 (2) Applied Financial Management

Focuses on how to apply key concepts in finance to real-world situations. Topics include valuation, capital structure, highly leveraged transactions, and financial distress and bankruptcy. Heavy emphasis on how to perform various kinds of valuations. Mixture of lectures and case discussions. Prereq., MBAC 6060. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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ACCT-6220 (3) Corporate Financial Reporting

Provides an in-depth study of the concepts underlying contemporary financial accounting practice. Includes preparation and analysis of financial statements and the application of concepts to selected current issues. Students with credit for ACCT 3220 and 3230 or equivalents may not receive credit for ACCT 6220. Prereq., MBAC 6020 or equivalent. Same as MBAX 6700.

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MBAX-6220 (3) Investment Management and Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6221 (2) Investment Management & Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereqs., MBAC core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6230 (3) International Financial Management

Examines the financial procedures, policies, and risks faced by firms conducting business internationally. Topics include examining the international finance environment, managing foreign exchange risk exposure, managing international working capital, conducting analysis, and developing an understanding of international financial markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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