At the Division of Continuing Education we are committed to helping you achieve your educational aspirations. We believe learning should never stop and growth is always possible. That's why our mission is to give you the opportunity to benefit from the resources available at the University of Colorado at Boulder.

Since your learning needs are unique, we offer a variety of educational programs – from courses for credit to personal enrichment classes to career-boosting computer courses. Let us help you “learn...grow...become.”

As you browse through this catalog, keep in mind the following tips:

**www.colorado.edu/conted** has the most up-to-date details

Credit programs are listed in the front of the catalog

Key policies, procedures, and contact information are detailed on page 66

Registration policies, including drop/add and payment/refund dates, differ by program – be sure to read the respective introduction page

Parking and class building information is detailed on pages 64-65

Tuition payment for Continuing Education is in addition to the main campus

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**NEW AND NOTEWORTHY**

**Boulder Evening**

Introduction to Chinese History  
HIST 1608 page 13

Scriptwriting for the Entertainment Industry  
JOUR 4874 page 13

History of United States Folk and Popular Music  
EMUS 2752 page 14

**Personal Enrichment**

Managing Stress in a Changing World  
NC L 009 page 36

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**SCHOLARSHIP**

Scholarship funds are available to students age 25 and older taking a Continuing Education course. For more information, call 303-492-5148 or visit us on the Web at [www.colorado.edu/conted/scholar.htm](http://www.colorado.edu/conted/scholar.htm)

**PROGRAM UPDATE**

The course numbers in the Computer Applications Program have been updated and there have been some changes to the introductory requirements for the certificate in programming.

---

Registration Information

See page 66 or call 303-492-5148
CONTENTS

3

Boulder Evening Credit Program
University of Colorado credit courses offered weekdays after 5 p.m. through the departments of communication, English, mathematics, psychology, sociology, Spanish, and more.

18

CU Connect and PLUS Registration Information
Instructions for eligible Boulder Evening and Independent Learning students to register using the telephone or the Web.

20

Independent Learning Programs
For people in transition, on the road, or just busy with multiple demands, an excellent solution for disciplined independent learners.

27

CATECS (Center for Advanced Training in Engineering and Computer Science)
Graduate engineering courses delivered directly to business or industry via live TV broadcast, the Web, and videotape.

29

Additional Credit Programs
ACCESS (Available Credit Courses for Eligible Special Students) Program
High School Concurrent Program
CU-Boulder Summer Session

31

Personal Enrichment Program
A lively, relevant approach to the arts, languages, theatre and writing.

39

Computer Applications Program
Hands-on instruction from user-friendly instructors, to teach you the basics or take you to the power-user edge.
Certificates in Network Administration, Programming and Web Site Design available.

61

Real Estate and Appraisal Program
A full curriculum of noncredit real estate and appraisal courses for professional licensure and license renewal in the state of Colorado.

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Special Programs
International English Center
Center for Business Education

64

Campus Map

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Registration Information

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Credit Registration Form

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Noncredit/Certificate Registration Form

INSIDE BACK COVER
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CATALOG PRODUCTION
Catalog production is wholly self-sustaining and does not involve funds allocated by the legislature for the university at large.
Recycled paper is used throughout the book. Share your catalog with friends, and recycle all appropriate materials. Thank you.
"More than any other region, the American West is shaped by its own myth."

Jay Fell
American History and Film
Seminar in History: American West

boulder
evening
BOULDER EVENING CREDIT PROGRAM

BOULDER EVENING CREDIT offers university courses that give you more options and more flexibility to help you continue your education while juggling the demands of a busy life. To understand exactly how Evening Credit courses fit into your program of study, make an appointment to talk to an advisor. Evening Credit courses provide solutions to help you:

- Begin your degree
- Complete your degree
- Fulfill core requirements
- Make a difficult schedule work better for you
- Pick up credits you’ve overlooked or postponed
- Try on the idea of applying to CU

Eligibility: All you need is a high school diploma or GED. (Individuals on University of Colorado Colorado financial stops or academic suspension from the College of Engineering and Applied Science may not enroll.)

Academic Advising: An academic advisor is available to help you plan a degree program, decide on a major, or simply explore your options. Feel free to call 303-492-8252 for an appointment.

Privileges: As a Boulder Evening Credit student, total library services are available at no additional charge.

Pass/Fail: Any Boulder Evening course taken for pass/fail is subject to restrictions established by your school or college.

Final Grades: Final grades for Boulder Evening will be available approximately 2 weeks after the course ends. To check your final grade, see the “Grades” information on the CU Connect and PLUS Registration Instructions, page 19.

To Drop: To drop a credit course and ensure that you receive any tuition refund that may be due, come to the Division of Continuing Education and complete a drop voucher by the appropriate date. If you don’t officially withdraw from a course, you may receive a grade of “F” for that course.

Tuition: Tuition is determined by residency status. Resident tuition is $125 per credit hour. Some courses requiring special equipment or materials may be slightly higher.

Nonresidents of Colorado are assessed tuition based on the number of semester hours for which they register. Nonresidents may register for up to three (3) semester hours at the rate of $240 per credit hour. Nonresidents registering for four (4) or more semester hours of Boulder Evening credit courses will be assessed a significantly higher rate that is comparable to the regular campus, nonresident rate.

The Division will charge our in-state rate for Boulder Evening when a nonresident degree student pays full nonresident tuition through the Boulder campus and then enrolls for additional Boulder Evening courses.

Residency: If you have lived in Colorado for the past 12 months, you may be eligible for in-state tuition rates although you may be asked for documentation. Please see the calendar on page 4 for deadline dates to petition for in-state classification.

Under 23? If you’re not 23 years old by the first day of classes, you are assumed to have the same legal residence as your parents. If your parents live out of state, you may petition the University of Colorado for resident status as an emancipated minor. If you believe your initial classification is incorrect, talk to the Classification Coordinator at 303-492-5148.

Student Fees: Boulder Evening students have the option of paying student fees for use of campus facilities (RTD bus pass, Recreation Center, Wardenburg Health Center, and other student services). Information on cost and paying student fees may be obtained by calling 303-492-5148.

Financial Aid: Degree students may qualify for all financial aid programs if eligible. Nondegree students taking courses for credit may qualify for a Stafford Loan (formerly GSL) if eligible. Applications are available in the Office of Financial Aid, 303-492-4518, or visit the web site at www.colorado.edu/financialaid.

Scholarships: Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. August 13 is the Fall application deadline. Scholarship awards range up to $365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

Veteran Benefits: As an eligible veteran or veteran dependent, you may enroll in evening classes and apply credit toward a degree. If you have questions about your eligibility and benefits contact Veterans Services in the Office of Financial Aid, 303-492-7322.

Transcripts: Boulder Evening courses and grades are recorded on official University of Colorado transcripts. To request a transcript, call 303-492-8987 or visit the web site at registrar.colorado.edu/support/transcripts.htm for additional information.

Final Exams: The final exam will be held the last day of the class. The last day of a class is available on the list of courses by start date beginning on page 5.

To Enroll: We encourage you to register in advance of the first class by CU Connect, PLUS, by mail, by FAX, or in person at the Division of Continuing Education, 1505 University Avenue.

Special Faculty-Staff Registration: Faculty and staff of the University of Colorado at Boulder may enroll in Boulder Evening courses at half the regular tuition on a space available basis. Please bring proof of appointment (showing at least half-time employment) to registration. See page 4 for registration dates.

SURVIVAL TIP: Boulder Evening tuition is assessed in addition to any tuition paid on campus (resident or nonresident).

Shootouts in the center of town, families circling their wagons, cowboys and Indians — was this really the Old West? Jay Fell, a Western historian, accepts the stereotype, but he also strives to put the myth into historical context. In his classes Jay discusses the legend of the cowboy and focuses on how this enduring archetypal figure overshadows the historical account of the West. "More than any other region," says Fell, "the American West is shaped by its own myth. The reality of its development was dramatically different than how it's been portrayed. And this dichotomy is one of the major issues we want to explore."
BOULDER EVENING REGISTRATION
AND ACADEMIC CALENDAR

FALL 2001

August 6
Boulder Evening registration through CU Connect or PLUS begins 7 a.m.–midnight.
Registration is also available by mail, fax, or in person at the Division of Continuing Education, 1505 University, 8 a.m.–5 p.m.
Monday through Friday.

August 13
Deadline to apply for Nontraditional Student Scholarship, see page 3 for details.

September 3
Labor Day Holiday. University closed.

September 4
Full Term and Session I Boulder Evening classes begin.
Faculty/Staff registration. 50% discount with proof of appointment.

September 7
Deadline to petition for in-state classification for Session I classes.

September 11
5 p.m. deadline to register for Session I classes, add your name to the wait list, request pass/fail status or drop with a 100% refund.
Withdrawals from Session I classes after this date will appear as a “W” on student’s academic record and must be received in writing.

September 12
Instructor’s signature required to add or drop Session I classes.

September 14
Deadline to petition for in-state classification for Full Term classes.

September 18
5 p.m. deadline to register for Full Term classes, add your name to the wait list, request pass/fail status or drop with a 100% refund.
Withdrawals from Full Term classes after this date will appear as a “W” on student’s academic record and must be received in writing.

5 p.m. deadline to drop Session I classes with a 60% refund.*

September 19
Instructor’s signature required to add or drop Full Term classes.

September 25
5 p.m. deadline to drop Session I classes with a 40% refund.*

September 26
Petition required to add or drop Session I classes.

October 2
5 p.m. deadline to drop Full Term classes with a 60% refund.*

October 4-5
Fall Break. NO CLASSES.

October 6
5 p.m. deadline to drop Full Term classes with a 40% refund.*

October 17
Petition required to add or drop Full Term classes.

October 22-23
Session I classes end.

October 24
Session II classes begin.
Faculty/Staff registration for Session II.
50% discount with proof of appointment.

October 29
Deadline to petition for in-state classification for Session II classes.

October 31
5 p.m. deadline to register for Session II classes, add your name to the wait list, request pass/fail status or drop with a 100% refund.
Withdrawals from Session II classes after this date will appear as a “W” on student’s academic record and must be received in writing.

November 1
Instructor’s signature required to add or drop Session II classes.

November 7
5 p.m. deadline to drop Session II classes with a 60% refund.*

November 14
5 p.m. deadline to drop Session II classes with a 40% refund.*

November 15
Petition required to add or drop Session II classes.

November 21-23
Thanksgiving Holiday. NO CLASSES.

December 4-20
Full Term classes end.

December 12-13
Session II classes end.

*All refund requests received must be in writing.
<table>
<thead>
<tr>
<th>Courses on Mondays</th>
<th>Courses begin September 10 and end December 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course No. – Hours</td>
<td>Times</td>
</tr>
<tr>
<td>ANTH 3000-3</td>
<td>300 90165 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>ASTR 1110-3</td>
<td>300 90163 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>BCOR 2010-3</td>
<td>300 90166 6-9 p.m.</td>
</tr>
<tr>
<td>ECON 1078-3</td>
<td>300 90172 6-9 p.m.</td>
</tr>
<tr>
<td>ENGL 1191-3</td>
<td>300 90169 5:45-8:45 p.m.</td>
</tr>
<tr>
<td>HEBR 2110-3</td>
<td>300 90161 11 a.m.-1:45 p.m.</td>
</tr>
<tr>
<td>HIST 1608-3</td>
<td>300 90171 5:30-8:30 p.m.</td>
</tr>
<tr>
<td>HIST 2866-3</td>
<td>300 90164 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>JOUR 4874-3</td>
<td>300 90296 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>PHIL 1000-3</td>
<td>300 90170 6-9 p.m.</td>
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<tr>
<td>PSYC 2606-3</td>
<td>300 90168 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>Q RMS 1010-3</td>
<td>300 90162 6-9 p.m.</td>
</tr>
<tr>
<td>Courses on Mondays and Wednesdays</td>
<td>Courses begin September 5 and end December 12</td>
</tr>
<tr>
<td>ARAB 1020-5</td>
<td>300 90148 5:30-8 p.m.</td>
</tr>
<tr>
<td>FINE 1171-3</td>
<td>300 90295 6:30-9 p.m.</td>
</tr>
<tr>
<td>FINE 1212-3</td>
<td>300 90061 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>SPAN 1010-5</td>
<td>302 90137 6:30-9 p.m.</td>
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<tr>
<td>UWRP 3020-3</td>
<td>302 90026 5:30-7 p.m.</td>
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<tr>
<td>Course on Mondays and Thursdays</td>
<td>Course begins September 6 and ends December 20</td>
</tr>
<tr>
<td>MATH 1300-5</td>
<td>300 90156 5:30-8:15 p.m.</td>
</tr>
<tr>
<td>Courses on Tuesdays</td>
<td>Courses begin September 4 and end December 4</td>
</tr>
<tr>
<td>COMM 2400-3</td>
<td>300 90038 6:30-9:30 p.m.</td>
</tr>
<tr>
<td>ECON 1088-3</td>
<td>300 90037 6-9 p.m.</td>
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<tr>
<td>ENGL 3000-3</td>
<td>300 90027 5:45-8:45 p.m.</td>
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<tr>
<td>EPOB 1210-3</td>
<td>300 90046 6-9 p.m.</td>
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<tr>
<td>EPOB 3020-3</td>
<td>300 90032 6-9 p.m.</td>
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<tr>
<td>HIST 1010-3</td>
<td>300 90050 6-9 p.m.</td>
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<tr>
<td>MGMT 3030-3</td>
<td>300 90028 6:30-9:30 p.m.</td>
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<td>PSCI 1101-3</td>
<td>300 90035 6-9 p.m.</td>
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<tr>
<td>PSCI 2223-3</td>
<td>300 90023 5:30-8:30 p.m.</td>
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<tr>
<td>SPAN 2110-3</td>
<td>300 90029 6-9 p.m.</td>
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<td>ENGL 2021-3</td>
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<td>FINE 1012-3</td>
<td>300</td>
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<td>FINE 2191-3</td>
<td>300</td>
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<td>SLHS 2315-4</td>
<td>300</td>
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<td>SPAN 1010-5</td>
<td>301</td>
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<td>SPAN 1020-5</td>
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<td>UWRP 3020-3</td>
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<td>ECON 2010-4</td>
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<td>EMUS 2752-3</td>
<td>300</td>
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<tr>
<td>ENGL 1800-3</td>
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<td>ENGL 3060-3</td>
<td>300</td>
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<tr>
<td>ENVS 1000-3</td>
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<td>HIST 3000-3</td>
<td>300</td>
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<td>PHIL 1600-3</td>
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<tr>
<td>PSYC 1001-3</td>
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<tr>
<td>THTR 1009-3</td>
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<td>COMM 1300-3</td>
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<tr>
<td>ECON 2020-4</td>
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<td>FINE 1300-3</td>
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<tr>
<td>HIST 1113-3</td>
<td>300</td>
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<tr>
<td>KAPH 3420-3</td>
<td>300</td>
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<tr>
<td>MATH 1011-3</td>
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<tr>
<td>PHIL 1200-3</td>
<td>300</td>
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<tr>
<td>PSCI 2004-3</td>
<td>300</td>
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<tr>
<td>PSCI 3163-3</td>
<td>300</td>
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<tr>
<td>PSYC 4303-3</td>
<td>300</td>
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<tr>
<td>SOCY 1006-3</td>
<td>300</td>
</tr>
<tr>
<td>SOCY 4024-3</td>
<td>300</td>
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### Session I Classes

#### Courses on Mondays and Wednesdays

<table>
<thead>
<tr>
<th>Course No. – Hours</th>
<th>Sec</th>
<th>Call #</th>
<th>Times</th>
<th>Course Title</th>
<th>Core</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1260-3</td>
<td>100</td>
<td>90128</td>
<td>6-9 p.m.</td>
<td>Introduction to Women's Literature</td>
<td>cultural and gender diversity</td>
</tr>
<tr>
<td>ENGL 3000-3</td>
<td>100</td>
<td>90127</td>
<td>5:30-8:30 p.m.</td>
<td>Shakespeare for Nonmajors</td>
<td>literature and the arts</td>
</tr>
<tr>
<td>GEOG 1982-3</td>
<td>100</td>
<td>90123</td>
<td>6-9 p.m.</td>
<td>World Regional Geography</td>
<td>none</td>
</tr>
<tr>
<td>HIST 2100-3</td>
<td>100</td>
<td>90132</td>
<td>5:30-8:30 p.m.</td>
<td>Revolution in History: Russian Revolutions</td>
<td>historical context</td>
</tr>
</tbody>
</table>

#### Courses on Tuesdays and Thursdays

<table>
<thead>
<tr>
<th>Course No. – Hours</th>
<th>Sec</th>
<th>Call #</th>
<th>Times</th>
<th>Course Title</th>
<th>Core</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 3563-3</td>
<td>100</td>
<td>90041</td>
<td>7-10 p.m.</td>
<td>Producing the Feature Film</td>
<td>none</td>
</tr>
<tr>
<td>GEOG 1001-4</td>
<td>100</td>
<td>90025</td>
<td>6-9 p.m.</td>
<td>Environmental Systems 1: Climate and Vegetation</td>
<td>natural science</td>
</tr>
<tr>
<td>JOUR 1002-3</td>
<td>100</td>
<td>90048</td>
<td>6-9 p.m.</td>
<td>Critical Thinking and Writing</td>
<td>none</td>
</tr>
<tr>
<td>SOCY 1005-3</td>
<td>100</td>
<td>90034</td>
<td>6-9 p.m.</td>
<td>Social Conflict and Social Values</td>
<td>contemporary societies or ideals and values</td>
</tr>
<tr>
<td>SOCY 1015-3</td>
<td>100</td>
<td>90030</td>
<td>6-9 p.m.</td>
<td>U.S. Race and Ethnic Relations</td>
<td>United States context</td>
</tr>
</tbody>
</table>

### Session II Classes

#### Courses on Mondays and Wednesdays

<table>
<thead>
<tr>
<th>Course No. – Hours</th>
<th>Sec</th>
<th>Call #</th>
<th>Times</th>
<th>Course Title</th>
<th>Core</th>
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</thead>
<tbody>
<tr>
<td>COMM 2400-3</td>
<td>200</td>
<td>90176</td>
<td>6:30-9:30 p.m.</td>
<td>Communication and Society</td>
<td>contemporary societies</td>
</tr>
<tr>
<td>ENGL 1600-3</td>
<td>200</td>
<td>90178</td>
<td>6-9 p.m.</td>
<td>Masterpieces of American Literature</td>
<td>literature and the arts</td>
</tr>
<tr>
<td>GEOG 1992-3</td>
<td>200</td>
<td>90177</td>
<td>6-9 p.m.</td>
<td>Human Geographies</td>
<td>none</td>
</tr>
<tr>
<td>HIST 1025-3</td>
<td>200</td>
<td>90174</td>
<td>5:30-8:30 p.m.</td>
<td>History of the United States since 1865</td>
<td>United States context</td>
</tr>
<tr>
<td>KAPH 3420-3</td>
<td>200</td>
<td>90175</td>
<td>6-9 p.m.</td>
<td>Nutrition, Health and Performance</td>
<td>natural science</td>
</tr>
<tr>
<td>PSCI 4734-3</td>
<td>200</td>
<td>90173</td>
<td>6-9 p.m.</td>
<td>Politics and Literature</td>
<td>critical thinking</td>
</tr>
</tbody>
</table>

#### Courses on Tuesdays and Thursdays

<table>
<thead>
<tr>
<th>Course No. – Hours</th>
<th>Sec</th>
<th>Call #</th>
<th>Times</th>
<th>Course Title</th>
<th>Core</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1300-3</td>
<td>200</td>
<td>90183</td>
<td>6-9 p.m.</td>
<td>Public Speaking</td>
<td>none</td>
</tr>
<tr>
<td>GEOG 1011-4</td>
<td>200</td>
<td>90184</td>
<td>6-9 p.m.</td>
<td>Environmental Systems 2: Landscapes and Water</td>
<td>natural science</td>
</tr>
<tr>
<td>JOUR 1001-3</td>
<td>200</td>
<td>90181</td>
<td>6-9 p.m.</td>
<td>Contemporary Mass Media</td>
<td>none</td>
</tr>
<tr>
<td>SOCY 1004-3</td>
<td>200</td>
<td>90182</td>
<td>6-9 p.m.</td>
<td>Deviance in U.S. Society</td>
<td>ideals and values</td>
</tr>
<tr>
<td>SOCY 1016-3</td>
<td>200</td>
<td>90180</td>
<td>6-9 p.m.</td>
<td>Sex, Gender, and Society 1</td>
<td>cultural and gender diversity</td>
</tr>
<tr>
<td>SOCY 3151-3</td>
<td>200</td>
<td>90179</td>
<td>6-9 p.m.</td>
<td>Self in Modern Society</td>
<td>United States context or ideals and values</td>
</tr>
</tbody>
</table>
ANTHROPOLOGY

Introduction to Physical Anthropology 1
ANTH 1020
3 SEMESTER HOURS
Detailed consideration of human biology, humans’ place in the animal kingdom, primate ecology, and fossil evidence for human evolution. Students may not receive credit for both ANTH 2010 and 2050. Approved for arts and sciences core curriculum: natural science.

Sue Woods, Ph.D.

Full Term - Section 300: Call No. 90133
Wednesdays, 6:30-9:30 p.m. Hale 230.
$375 (resident).

Primate Behavior
ANTH 3000
3 SEMESTER HOURS
Surveys naturalistic primate behavior. Social behavior, behavioral ecology, and evolution are emphasized as they lead to an understanding of human behavior. Prereq., ANTH 2010 and 2020, or EPOB 1210 and 1220, and junior standing. Approved for arts and sciences core curriculum: natural science.

Sue Woods, Ph.D.

Full Term - Section 300: Call No. 90165
Mondays, 6:30-9:30 p.m. Hale 240.
$375 (resident).

ARABIC

Beginning Arabic 2
ARAB 1020
5 SEMESTER HOURS
This is the second semester of beginning Arabic. Prereq., ARAB 1010. Approved for arts and sciences core curriculum: foreign language. ARAB 1010 is tentatively scheduled for Fall 2002.

Nadja Turk, Ph.D.

Section: 300: Call No. 90148
Mondays and Wednesdays, 5:30-8 p.m. Hellems 245.
$645 (resident).

ASTRONOMY

General Astronomy: The Solar System
ASTR 1110
3 SEMESTER HOURS
Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, moon, planets, Sun, and the origin of life. ASTR 1110 and 1120 may be taken in either order. Offers opportunities to attend nighttime observing sessions at Sommers-Bausch Observatory. Some sessions are at the Fiske Planetarium. Approved for arts and sciences core curriculum: natural science.

Joe Romig, Ph.D.

Full Term - Section 300: Call No. 90163
Mondays, 6:30-9:30 p.m. Hale 270.
$375 (resident).

BIOLOGY

General Biology 1
EPOB 1210
3 SEMESTER HOURS
Introduces molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts, and questions. Recommended for science majors who are not EPOB majors. Similar to EPOB 2050 and 2650. Approved for arts and sciences core curriculum: natural science.

Beth Bennett, Ph.D.

Full Term - Section 300: Call No. 90046
Tuesdays, 6-9 p.m. Ramaley N1B23.
$375 (resident).

Principles of Ecology
EPOB 3020
3 SEMESTER HOURS
Explores principles relating to ecosystem structure and function, properties and interactions of populations, adaptations and environmental influences, and organization and development of terrestrial and aquatic ecosystems. Prereq., EPOB 1210 and 1220 or equivalent.

Alcinda Lewis, Ph.D.

Full Term - Section 300: Call No. 90032
Tuesdays, 6-9 p.m. Clare Small 211.
$375 (resident).

BUSINESS CORE

Accounting and Financial Analysis 1
BCOR 2000
4 SEMESTER HOURS
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. Focuses on the form and content of corporate financial statements. Students learn the principles of revenue and expense recognition as well as the basic accounting for assets, liabilities, and equities. In addition, introduces accounting and financial statement analysis for decision makers. This course is a core requirement for all business majors. Prereq., sophomore standing.

Deo Fischer, C.P.A.

Full Term - Section 300: Call No. 90024
Tuesdays and Thursdays, 6:30-8:30 p.m.
Business 353. $500 (resident).

Business Statistics
BCOR 2010
3 SEMESTER HOURS
Covers descriptive statistics, basic probability theory, statistical inference, correlation and regression analysis, and time series analysis. Uses statistical features of commonly used business spreadsheet software. Students use this software to solve problems using real business data. This course is a core requirement for all business majors. Prereq., MATH 1050, 1060, 1070, or calculus and BCOR 1000.

SungWook Yoon, M.S., M.B.A.

Full Term - Section 300: Call No. 90166
Mondays, 6-9 p.m. Business 125.
$375 (resident).
COMMUNICATION

Public Speaking
COMM 1300
3 SEMESTER HOURS
Covers theory and skills of speaking in various public settings. Treats fundamental principles from rhetorical and communication theory and applies them to oral presentations.

Joel Guenther, M.A.
Full Term - Section 300: Call No. 90152
Thursdays, 6:30-9:30 p.m. Humanities 190.
$375 (resident).

David Steiner, Ph.D.
Session II - Section 200: Call No. 90183
Tuesdays and Thursdays, 6-9 p.m.
Humanities 135. $375 (resident).

Communication and Society
COMM 2400
3 SEMESTER HOURS
Seeks to increase students’ awareness of the ways in which gender, dialect (ethnic, regional and social class), and cultural background influence communication behavior and its consequences. Deepens understanding of communication as a social process, making students more sophisticated observers and participants in their own and other cultures. Approved for arts and sciences core curriculum: contemporary societies.

Joel Guenther, M.A.
Full Term - Section 300: Call No. 90038
Tuesdays, 6:30-9:30 p.m. Humanities 190.
$375 (resident).

Session II - Section 200: Call No. 90176
Mondays and Wednesdays, 6:30-9:30 p.m.
Humanities 190. $375 (resident).

ECONOMICS

Mathematical Tools for Economists 1
ECON 1078
3 SEMESTER HOURS
Teaches mathematical skills and logical thinking for use in economics. Course is open to all majors. Topics include algebra, graphs, functions, and probability. Includes many “real-world” examples, such as investments, supply and demand, maximizing profits, and minimizing costs. Can be used to meet College of Business math requirement. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

William Mertens, Ph.D.
Full Term - Section 300: Call No. 90172
Mondays, 6-9 p.m. Economics 119.
$375 (resident).

Mathematical Tools for Economists 2
ECON 1088
3 SEMESTER HOURS
Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. Illustrates skills with computer assignments and “real world” problems. Similar to MATH 1080, 1090, and 1100. Can be used to meet College of Business math requirement. Prereq., ECON 1078 or instructor consent. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

William Mertens, Ph.D.
Full Term - Section 300: Call No. 90037
Tuesdays, 6-9 p.m. Economics 119.
$375 (resident).

Principles of Microeconomics
ECON 2010
4 SEMESTER HOURS
Examines basic concepts of microeconomics, or the behavior and 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. This section requires web access for the online recitation. Students may not receive credit for ECON 2010 and 2011 or 1000 or 1001. Approved for arts and sciences core curriculum: contemporary societies.

William Mertens, Ph.D.
Full Term - Section 300: Call No. 90139
Wednesdays, 6-9 p.m. Economics 2.
$500 (resident).

Principles of Macroeconomics
ECON 2020
4 SEMESTER HOURS
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. This section requires web access for the online recitation. May be taken before ECON 2010. Students may not receive credit for ECON 2020 and 2021 or 1000 or 1001. Approved for arts and sciences core curriculum: contemporary societies.

Jason Moule, M.A.
Full Term - Section 300: Call No. 90149
Thursdays, 6-9 p.m. Economics 119.
$500 (resident).

As a professional cyclist, Kirk Robinson trains and races during the day. He likes the evening classes offered through Continuing Education at CU because he can pursue his degree in English without taking time away from his training schedule. "You get the college atmosphere that you wouldn't get at a community college, and I know the credits will transfer directly toward my degree."
ENGLISH

Introduction to Creative Writing
ENGL 1191
3 SEMESTER HOURS
Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and discussed in a workshop atmosphere by other students. May not be taken concurrently with ENGL 2021 or 2051. Not open to graduate students. May not be repeated.

George Moore, Ph.D.
Full Term - Section 300: Call No. 90169 Mondays, 5:45-8:45 p.m. Hellem 259. $375 (resident).

Introduction to Women’s Literature
ENGL 1260
3 SEMESTER HOURS
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: cultural and gender diversity.

Patricia Thompson, M.A.
Session I - Section 100: Call No. 90128 Mondays and Wednesdays, 6-9 p.m. Hellem 267. $375 (resident).

Masterpieces of American Literature
ENGL 1600
3 SEMESTER HOURS
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 twentieth century. Approved for arts and sciences core curriculum: literature and the arts.

Patricia Thompson, M.A.
Session II - Section 200: Call No. 90178 Mondays and Wednesdays, 6-9 p.m. Hellem 255. $375 (resident).

American Ethnic Literatures
ENGL 1800
3 SEMESTER HOURS
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. Same as ETHN 1800. Approved for arts and sciences core curriculum: cultural and gender diversity.

Joel Daehne, Ph.D.
Full Term - Section 300: Call No. 90126 Wednesdays, 6-9 p.m. Economics 117. $375 (resident).

Introductory Poetry Workshop
ENGL 2021
3 SEMESTER HOURS
Introductory course in poetry writing. Prereq., completion of ENGL 1191 with a grade of B- or better, or equivalent transfer course work. May be repeated for a total of 9 credit hours.

Naomi Rachel, M.A.
Full Term - Section 300: Call No. 90246 Tuesdays and Thursdays, 5:30-7 p.m. Hellem 245. $375 (resident).

Shakespeare for Nonmajors
ENGL 3000
3 SEMESTER HOURS
Introduces students to Shakespeare's major works—the histories, comedies, and tragedies. May include nondramatic poetry as well. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts.

George Moore, Ph.D.
Full Term - Section 300: Call No. 90027 Tuesdays, 5:45-8:45 p.m. Guggenheim 2. $375 (resident).

Pamela Hadar, Ph.D.
Session I - Section 100: Call No. 90127 Mondays and Wednesdays, 5:30-8:30 p.m. Hellem 255. $375 (resident).

Modern and Contemporary Literature
ENGL 3060
3 SEMESTER HOURS
Close study of significant twentieth-century poetry, drama and prose works. Readings range from 1920s to the present. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts.

George Moore, Ph.D.
Full Term - Section 300: Call No. 90063 Wednesdays, 5:45-8:45 p.m. Hellem 229. $375 (resident).

Additional writing courses are available through Personal Enrichment, page 37.
ENVIRONMENTAL STUDIES

Introduction to Environmental Studies
ENVS 1000
3 SEMESTER HOURS
Surveys environmental studies, examining ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on Earth. Required for ENVS majors.

Eric Stone, Ph.D.

Full Term - Section 300: Call No. 90119
Wednesdays, 6:30-9:30 p.m. Stadium 140.
$375 (resident).

FILM STUDIES

Producing the Feature Film
FILM 3563
3 SEMESTER HOURS
Designed to give students a behind-the-scenes look at the way production in the entertainment industry is structured and works, this course emphasizes the critical role the script plays in the production process. Students analyze story structure and components and production values of various feature scripts. The course will also focus on the roles, functions, and relationships of writer, producer, director, and editor; the budget process; and all phases in the production process. Screenings in conjunction with script analysis will be featured. This course is designed to lead students into FILM 3501 which has a more hands-on approach to production.

Frank Iannella, M.A.

Session 1 - Section 100: Call No. 90041
Tuesdays and Thursdays, 7-10 p.m.
Guggenheim 205. $375 (resident).

Additional fine arts courses are available through Personal Enrichment, pages 33-34.

Film Production Management
FILM 3501
3 SEMESTER HOURS
This course familiarizes students with the principles of film management techniques as well as problem-solving methodologies developed specifically for the film industry. Emphasis will be placed on the technique of production boarding as the central tool in production management as well as budget and contracts information. The course is designed for students interested in media production as a career. FILM 3501 or 3563 may be used for partial fulfillment of major requirements.

Frank Iannella, M.A.

Full Term - Section 300: Call No. 90130
Wednesdays, 7-10 p.m. Guggenheim 206.
$375 (resident).

FINE ARTS

Drawing 1
FINE 1012
3 SEMESTER HOURS
Introductory course including pictorial design, life drawing, still life, and landscape, using varied drawing techniques and media. Recommended for BFA majors instead of FINE 1002. May not be repeated.

Tyler Alpern, M.F.A.

Full Term - Section 300: Call No. 90044
Tuesdays and Thursdays, 6:30-9:30 p.m.
Fine Arts N298. $425 (resident).

Painting 1
FINE 1212
3 SEMESTER HOURS
Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated. Recommended for BFA majors instead of FINE 1202.

Susanna Podhey, M.F.A.

Full Term - Section 300: Call No. 90061
Mondays and Wednesdays, 6:30-9:30 p.m.
Fine Arts N103. $425 (resident).

History of World Art 1
FINE 1300
3 SEMESTER HOURS
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. Students may not receive credit for both FINE 1300 and FINE 1109. Approved for arts and sciences core curriculum: literature and the arts.

Christine Dupont-Patz, M.A.

Full Term - Section 300: Call No. 90150
Thursdays, 6:30-9:30 p.m. Hale 230.
$375 (resident).

Photography 1
FINE 1171
3 SEMESTER HOURS
This course introduces techniques and concepts of photography as art and emphasizes photography as a means to formal and expressive ends. Students will master the technical aspects of black and white photography including the functions of the SLR camera, the enlarger, and the chemical process of developing and printing black and white negatives. Students must have full access to a working 35mm manual camera with a built in working light meter. May not be repeated.

Greg Massey, M.F.A.

Full Term - Section 300: Call No. 90295
Mondays and Wednesdays, 6:30-9 p.m.
Fine Arts N185. $435 (resident).

Photography 2
FINE 2191
3 SEMESTER HOURS
Explores more sophisticated technical and conceptual skills to the creative process. Students must have full access to a working 35mm manual camera with a built in working light meter. May not be repeated.

Preeq, FINE 1161 or 1171.

Greg Massey, M.F.A.

Full Term - Section 300: Call No. 90045
Tuesdays and Thursdays, 6:30-9 p.m.
Fine Arts N185. $435 (resident).
GEOGRAPHY

Environmental Systems 1: Climate and Vegetation
GEOG 1001
4 SEMESTER HOURS
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 arts and sciences core curriculum: natural science.
Steve Welten, Ph.D.

Session I - Section 100: Call No. 90025
Tuesdays and Thursdays, 6-9 p.m.
Hellens 199. $500 (resident).

Environmental Systems 2: Landscapes and Water
GEOG 1011
4 SEMESTER HOURS
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 arts and sciences core curriculum: natural science.
Steve Welten, Ph.D.

Session II - Section 200: Call No. 90184
Tuesdays and Thursdays, 6-9 p.m.
Hellens 199. $500 (resident).

World Regional Geography
GEOG 1982
3 SEMESTER HOURS
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.
Betsy Forrest, M.A.

Session I - Section 100: Call No. 90123
Mondays and Wednesdays, 6-9 p.m.
Guggenheim 205. $375 (resident).

Human Geographies
GEOG 1992
3 SEMESTER HOURS
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.
Betsy Forrest, M.A.

Session II - Section 200: Call No. 90177
Mondays and Wednesdays, 6-9 p.m.
Guggenheim 205. $375 (resident).

HEBREW

Intermediate Hebrew 1
HEBR 2110
3 SEMESTER HOURS
This is the first semester of intermediate Hebrew. Prereq., HEBR 1020. Approved for arts and sciences core curriculum: foreign language. HEBR 1010 is tentatively scheduled for Spring 2002.
Uri Neil, J.D.

Full Term - Section 300: Call No. 90161
Mondays, 11 a.m.-1:45 p.m.
Continuing Education Center, Room 140, $375 (resident).

HISTORY

Western Civilization 1: From Antiquity to the 16th Century
HIST 1010
3 SEMESTER HOURS
Surveys the development of Western civilization from its beginnings in the ancient Near East through the Reformation of the 16th century. Approved for arts and sciences core curriculum: historical context.
Phl Mitchell, Ph.D.

Full Term - Section 300: Call No. 90050
Tuesdays, 6-9 p.m. Hellens 211.
$375 (resident).

History of the United States since 1865
HIST 1025
3 SEMESTER HOURS
Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Approved for arts and sciences core curriculum: United States context.
Merle Funk, Ph.D.

Session II - Section 200: Call No. 90174
Mondays and Wednesdays, 5:30-8:30 p.m.
Hellens 267. $375 (resident).

Jenny Waymire is a full-time undergraduate student at CU. She's taking a History class because her day class schedule was already full. Jenny likes having a night class in her schedule. "Everyone I've talked to who's taken a Continuing Ed class has said it was their best class of the semester, and I agree. I like the more laid back, informal format. The classes are 3 hours instead of 50 minutes, so we get to know each other and have good discussions."
American History and Film
HIST 2866
3 SEMESTER HOURS
Teaches students to "read" films as historical documents, with an emphasis on the 20th century. Focuses on selected moments in U.S. history, studying the historical background and viewing and critiquing relevant films. Does not fulfill major requirements. Approved for arts and sciences core curriculum: historical context.
James Fell, Ph.D.
Full Term - Section 300: Call No. 90644 Mondays, 6:30-9:30 p.m. Economics 117. $375 (resident).

Seminar in History:
American West
HIST 3000
3 SEMESTER HOURS
Encourages students to explore and analyze a problem, topic, or area through selected readings in primary (when feasible) and secondary sources. Exposes students to the way historians view various complex issues. Enrollment limited to nonmajors. Examines the conflict between the popular perceptions of the American West and the reality of the region. In this course, students will develop critical thinking and writing skills as they discuss the "mythology" surrounding the West. Along with enhancing their knowledge and understanding of the region, students will explore the impact of the American West on the development of the nation. Approved for arts and sciences core curriculum: critical thinking.
James Fell, Ph.D.
Full Term - Section 300: Call No. 90146 Wednesdays, 6:30-9:30 p.m. Hellem's 251. $375 (resident).

Journalism
Contemporary Mass Media
JOUR 1001
3 SEMESTER HOURS
Examines the mass media's interaction with society and looks at journalism and the mass media in historical, intellectual, economic, political, and social contexts.
Jan Whit, Ph.D.
Session I - Section 200: Call No. 90181 Tuesdays and Thursdays, 6-9 p.m. Hellem's 247. $375 (resident).

Critical Thinking and Writing
JOUR 1002
3 SEMESTER HOURS
This course reviews grammatical and organizational principles, experiments with several rhetorical modes, summarizes and analyzes media texts, and teaches techniques for writing and editing clearly and effectively. Topics will include the use of library resources and computer databases to conduct basic research. Students study personal writing, informative writing, persuasive writing, and promotional writing. This course is required for students seeking admission to the School of Journalism and Mass Communication.
Jan Whit, Ph.D.
Session I - Section 100: Call No. 90048 Tuesdays and Thursdays, 6-9 p.m. Hellem's 247. $375 (resident).

Special Topics: Scriptwriting for the Entertainment Industry
JOUR 4874
3 SEMESTER HOURS
Introduces basic script writing skills and formats for broadcast and cable television situation comedies, dramas and movies. Produced scripts will be analyzed for structure, story components, drama devices and aesthetics. Students will write a script for a half-hour television program or a full treatment for a larger project.
Frank Iannella, M.A.
Full Term - Section 300: Call No. 90296 Mondays, 7-10 p.m. Ketchum 118. $375 (resident).
KINESIOLOGY AND APPLIED PHYSIOLOGY

Nutrition, Health and Performance
KAPH 3420
3 SEMESTER HOURS
Highlights basic principles of nutrition and their relationship to health. Students may not receive credit for both KAPH 3420 and PSYC 2062. Prereq., junior standing (pre-nursing students are exempt). Approved for arts and sciences core curriculum: natural science.

Nanci Grayson, M.S., R.D., C.D.
Full Term - Section 300: Call No. 90158 Thursdays, 6-9 p.m. Clare Small 207. $375 (resident).

Luke Seastrand, Ph.D.
Session II - Section 200: Call No. 90175 Mondays and Wednesdays, 6-9 p.m. Clare Small 207. $375 (resident).

MATHEMATICS

Fundamentals and Techniques of College Algebra
MATH 1011
3 SEMESTER HOURS
Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions and graphs, complex numbers, and binomial theorem. Students may not receive credit for both MATH 1011 and 1000/1020. Prereq., one year of high school algebra or placement exam score for MATH 1000. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Craig P. McBride, B.S.
Full Term - Section 300: Call No. 90157 Thursdays, 6-9 p.m. Engineering Center CR 151. $375 (resident).

Analytic Geometry and Calculus 1
MATH 1300
5 SEMESTER HOURS
Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration, and applications of the definite integral. Students with credit in MATH 1080, 1090, and 1100 receive only 2 credit hours in MATH 1300. Students with credit in MATH 1300 may not receive credit in MATH 1081, 1310, or APPM 1350. Prereq., two years of high school algebra, one year of geometry, and 1/2 year of trigonometry. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Ira Becker, Ph.D.
Full Term - Section 300: Call No. 90156 Mondays and Thursdays, 5:30-8:15 p.m. Hale 260. $625 (resident).

MUSIC

History of United States Folk and Popular Music
EMUS 2752
3 SEMESTER HOURS
Offers a stylistic and historical examination of trends that have influenced present-day American music. Approved for arts and sciences core curriculum: United States context.

Brian Moon, M.M.
Full Term - Section 300: Call No. 90115 Wednesdays, 6-9 p.m. Music Bldg, N1B59. $388 (resident).

PHILOSOPHY

Introduction to Philosophy
PHIL 1000
3 SEMESTER HOURS
Introduces fundamental topics of philosophy, e.g., knowledge, truth, universals, self, the mind-body problem, time, God, and value. Approved for arts and sciences core curriculum: ideals and values.

David Youkey, Ph.D.
Full Term - Section 300: Call No. 90170 Mondays, 6-9 p.m. Ketchum 119. $375 (resident).

Music lessons are available through Applied Music, page 25.

Sach Sanchez is taking a history course through Continuing Education at CU. The students at Continuing Education come from varied backgrounds, and they are often genuinely interested in the classes they've chosen. This dynamic helps the students learn because they all want to be there, and the different viewpoints become catalysts for lively discussions.
Philosophy and Society
PHIL 1200
3 SEMESTER HOURS
Introduces philosophical thought through critical analysis of our own society, its institutions, and principles. Approved for arts and sciences core curriculum: United States context or ideals and values.
Lee Speer, M.A.
Full Term - Section 300: Call No. 90058 Thursdays, 6:30-9:30 p.m. Hellem 241. $375 (resident).

Philosophy and Religion
PHIL 1600
3 SEMESTER HOURS
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 arts and sciences core curriculum: ideals and values.
Lee Speer, M.A.
Full Term - Section 300: Call No. 90060 Wednesdays, 6:30-9:30 p.m. Hellem 241. $375 (resident).

Survey of Western Political Thought
PSCI 2004
3 SEMESTER HOURS
Studies main political philosophies and political issues of Western culture, from antiquity to 20th century. Approved for arts and sciences core curriculum: ideals and values.
Vincent McGuire, Ph.D.
Full Term - Section 300: Call No. 90160 Thursdays, 6-9 p.m. Ketchum 119. $375 (resident).

Introduction to International Relations
PSCI 2223
3 SEMESTER HOURS
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. Students will discuss current issues and conflicts in world politics. Approved for arts and sciences core curriculum: contemporary societies.
James C. Ross, Ph.D.
Full Term - Section 300: Call No. 90023 Tuesdays, 5:30-8:30 p.m. Economics 205. $375 (resident).

American Foreign Policy
PSCI 3163
3 SEMESTER HOURS
Examines foundations, assumptions, objectives, dynamics, and methods of U.S. foreign policy since WWII. By using case studies, the course gives special attention to domestic and external problems of adapting U.S. policy to the changing world environment. Topics include the Vietnam War, the Gulf War, and the U.S. led intervention in Kosovo. Prereq., PSCI 2223. Approved for arts and sciences core curriculum: United States context.
James C. Ross, Ph.D.
Full Term - Section 300: Call No. 90151 Thursdays, 5:30-8:30 p.m. Economics 205. $375 (resident).

Politics and Literature
PSCI 4734
3 SEMESTER HOURS
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., junior or senior standing. Approved for arts and sciences core curriculum: critical thinking.
Loren Weinberg, Ph.D.
Session II - Section 200: Call No. 90173 Mondays and Wednesdays, 6-9 p.m. Ketchum 303. $375 (resident).

PSYCHOLOGY

General Psychology
PSYC 1001
3 SEMESTER HOURS
Surveys major topics in psychology: perception, development, personality, learning and memory, and biological bases of behavior.
Michael Freedman, Ph.D.
Full Term - Section 300: Call No. 90134 Wednesdays, 6:30-9:30 p.m. Hellem 141. $375 (resident).

Social Psychology
PSYC 2606
3 SEMESTER HOURS
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. Similar to PSYC 4406; students may not receive credit for both 2606 and 4406. Approved for arts and sciences core curriculum: contemporary societies.
Patrick Vann, Ph.D.
Full Term - Section 300: Call No. 90168 Mondays, 6:30-9:30 p.m. Muenzinger E113. $375 (resident).
(Psychology continued)

Abnormal Psychology
PSYC 4303
3 SEMESTER HOURS
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. Not open for credit to those who have credit for PSYC 3313 or 4313. Prereq.: PSYC 1001.

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90154 Thursdays, 6:30-9:30 p.m. Muenzinger E113. $375 (resident).

Quantitative Reasoning and Mathematical Skills
QRMS 1010
3 SEMESTER HOURS
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. QRMS 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. Same as MATH 1012. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Craig P. McBride, B.S.

Full Term - Section 300: Call No. 90162 Mondays, 6-9 p.m. Engineering Center CR 151. $375 (resident).

Sociology

Deviance in U.S. Society
SOCY 1004
3 SEMESTER HOURS
Examines deviant groups in the U.S., emphasizing existing theory and research about such issues as deviant careers, deviant lifestyles and behavior, and processes of social control. Approved for arts and sciences core curriculum: ideals and values.

Instructor: TBA

Session I - Section 200: Call No. 90182 Tuesdays and Thursdays, 6-9 p.m. Muenzinger E0046. $375 (resident).

Social Conflict and Social Values
SOCY 1005
3 SEMESTER HOURS
Explores origin, escalation, and resolution of social conflict. Focuses on major conflict theories, human values and social action, and use of simulation and negotiation exercises for learning conflict management skills. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

Instructor: TBA

Session I - Section 100: Call No. 90034 Tuesdays and Thursdays, 6-9 p.m. Hellem 201. $375 (resident).

The Social Construction of Sexuality
SOCY 1006
3 SEMESTER HOURS
Discusses current perspectives on the social determinants of sexuality. Emphasizes sociological critique, and analyzes the interfacing of societal, psychological, and cultural influences. Interactional perspective of human sexuality is presented. Same as WMST 1006. Approved for arts and sciences core curriculum: cultural and gender diversity.

Instructor: TBA

Full Term - Section 300: Call No. 90155 Thursdays, 6-9 p.m. Education 220. $375 (resident).

U.S. Race and Ethnic Relations
SOCY 1015
3 SEMESTER HOURS
Examines race and minority problems in U.S. society, including psychological, social, and cultural sources of prejudice and discrimination. Same as ETHN 1015. Approved for arts and sciences core curriculum: United States context.

Instructor: TBA

Session I - Section 100: Call No. 90030 Tuesdays and Thursdays, 6-9 p.m. Hale 240. $375 (resident).

Sex, Gender, and Society I
SOCY 1016
3 SEMESTER HOURS
Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical cross-cultural context of gender roles and status, and reviews majors theories of gender stratification. Same as WMST 1016. Approved for arts and sciences core curriculum: cultural and gender diversity.

Instructor: TBA

Session I - Section 200: Call No. 90180 Tuesdays and Thursdays, 6-9 p.m. Hellem 201. $375 (resident).

Self in Modern Society
SOCY 3151
3 SEMESTER HOURS
Using a variety of eastern and western perspectives, 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. Approved for arts and sciences core curriculum: United States context or ideals and values.

Duncan Rinehart, Ph.D.

Session II - Section 200: Call No. 90179 Tuesdays and Thursdays, 6-9 p.m. Economics 117. $375 (resident).
Juvenile Delinquency
SOCY 4024
3 SEMESTER HOURS
Examines the history, incidence, and prevalence of delinquent behavior, as well as theoretical explanations regarding why children become involved in criminal activity. Approved for arts and sciences core curriculum: contemporary societies.

Herbert Covey, Ph.D.
Full Term - Section 300: Call No. 90153
Thursdays, 6-9 p.m. Ramaley N1B23.
$375 (resident).

SPANISH

Beginning Spanish 1
SPAN 1010
5 SEMESTER HOURS
Provides 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. Similar to SPAN 1150. Approved for arts and sciences core curriculum: foreign language.

Cassandra Gerber, M.A.
Full Term - Section 301: Call No. 90036
Tuesdays and Thursdays, 6:30-9 p.m.
Hellem 185. $645 (resident).

Javier Garcia, B.A.
Full Term - Section 302: Call No. 90137
Mondays and Wednesdays, 6:30-9 p.m.
Hellem 247. $645 (resident).

Beginning Spanish 2
SPAN 1020
5 SEMESTER HOURS
This course is the second semester of beginning Spanish and is a continuation of SPAN 1010. Attendance at the language laboratory may be mandatory. Prereq.: SPAN 1010 or placement. Approved for arts and sciences core curriculum: foreign language.

Isabel Rodriguez, M.A.
Full Term - Section 300: Call No. 90043
Tuesdays and Thursdays, 5:30-8 p.m.
Hellem 255. $645 (resident).

Second-Year Spanish 1
SPAN 2110
3 SEMESTER HOURS
Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq.: SPAN 1020 or 1150 with a grade of C- or better, or placement. Similar to SPAN 2150. Prereq.: SPAN 1020 or 1150 with a grade of C- or better, or placement. Approved for arts and sciences core curriculum: foreign language.

Javier Garcia, B.A.
Full Term - Section 300: Call No. 90029
Tuesdays, 6-9 p.m. Chemistry 145.
$395 (resident).

SPEECH, LANGUAGE AND HEARING SCIENCES

American Sign Language 2
SLHS 2315
4 SEMESTER HOURS
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. Approved for arts and sciences core curriculum: foreign language.

Willard Moers, M.A.
Full Term - Section 300: Call No. 90040
Tuesdays and Thursdays, 6-8 p.m.
Ketchum 301. $520 (resident).

THEATRE

Introduction to Theatre
THTR 1009
3 SEMESTER HOURS
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. Readings, lectures, and attendance at University theatre productions. Described for nonmajors. Approved for arts and sciences core curriculum: literature and the arts.

David Steiner, Ph.D.
Full Term - Section 300: Call No. 90139
Wednesdays, 6-9 p.m. Humanities 1B80.
$375 (resident).

UNIVERSITY WRITING PROGRAM

Topics in Writing
UWRP 3020
3 SEMESTER HOURS
Each instructor assigns two or more readings on a given topic. Students choose an essay, abstract its argument, analyze it, and agree or disagree with the author. They thus learn the principal modes of academic rhetoric: description, analysis and argument. Approved for arts and sciences core curriculum: written communication.

Environmental Issues
Anne Bliss, Ph.D.
Full Term - Section 301: Call No. 90056
Tuesdays and Thursdays, 5:30-7 p.m.
McKenna 112. $375 (resident).

Writing about Theatre and Drama
Suzanne Hudson, M.A.
Full Term - Section 302: Call No. 90026
Mondays and Wednesdays, 5:30-7 p.m.
Clare Small 301. $375 (resident).

World Novel, World View
Peter Schuberg, M.A.
Full Term - Section 303: Call No. 90147
Tuesdays and Thursdays, 6:30-8 p.m.
Clare Small 209. $375 (resident).

Conversational language courses are available through Personal Enrichment, pages 34-36.
In addition to registering by mail, fax (303-492-3962), or in person (1505 University Avenue), Boulder Evening and Independent Learning students are eligible to register using CU Connect (the telephone registration system) or PLUS (web registration). To be eligible to use either CU Connect or PLUS, you must be activated for Continuing Education for the fall and have no academic or financial stop which could prevent you from registering. To be activated for Continuing Education for fall, return the credit registration form on page 67. You will be sent an Invitation to Register through the mail verifying your eligibility along with your personal identification number (PIN). Please remember to keep your PIN confidential. Use of CU Connect or PLUS obligates you to pay any tuition charges as a result of adding any course.

CU Connect and PLUS are normally available Monday through Friday 7 a.m. to midnight and Sundays from 11 a.m. to midnight. They are not available on Saturdays.

Register Using PLUS
Eligible Boulder Evening and Independent Learning students can register on the Web by accessing the CU home page at www.colorado.edu and choosing Resources for Students and then Personal Lookup Services (PLUS) or going directly to PLUS at www.colorado.edu/plus and selecting the "Registration Log-Ons" button. You will then need to enter your student ID/social security number and personal identification number (PIN) and hit submit. At the registration menu, choose the "Register" tab at the bottom of the page. Then choose Continuing Education Fall 2001 and follow the instructions on the web page from there to add, drop or wait-list for a course, and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on the "submit" button to process each course request. To verify your course selections, click on the "Schedule" tab at the bottom of the page. When you're finished, be sure to exit web registration.

You can also conduct online course searches using PLUS. At the PLUS home page you can choose "Planning Tools" and then Schedule Planner. If you have logged on to PLUS using your student number and PIN, you can choose the "Course Status" tab at the bottom of the page. Schedule Planner and Course Status allow you to search by subject, level, course number, core requirements, and by meeting time. Course Status is updated on a real time basis; Schedule Planner is updated nightly.

Register Using CU Connect
Call CU Connect, 303-938-8110, from any touch-tone phone to register. Use the confirmed registration function codes listed below.
the Boulder-campus code 1
the Continuing Education code 1
the registration application code 1
the term code 017
your University student number __ __ __ __ __ __ __ __
your personal identification number (PIN) __ __ __ __

Fill out the information below completely. When prompted, enter the courses you've listed below. Press the star (*) or pound (#) keys as indicated. Whenever you press the # key, wait for the computer voice to respond before proceeding with the next entry. For more time between entries, press #.

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Other CU Connect Functions
To add a course, press 2*, the course call number, then #
To drop a course, press 3*, the course call number, then #
To request a course for no credit, press *1 between the course call number and #
To request a course for pass/fail, press *2 between the course call number and #
To list your courses, verify your schedule, or check your position on a wait list, press 5#
To search for open sections, press 7#
To place your name on a wait list, press 9#
To cancel an entry, press * before you have completed the transaction
To exit the registration application, press 8# then 1 to access the student billing application
for your account balance and/or credit card payment option or press 2 to end the call.
Verifying and Adjusting Your Schedule
Once you have registered, it is important that you verify your schedule either through CU Connect or PLUS. For Boulder Evening, you can adjust your schedule through the dates listed on the calendar on page 4.

Wait Lists
Placing your name on a wait list does not guarantee that you will be enrolled in that course. Enrollment is determined by the total number of spaces and the demand for each particular course. Spaces may or may not become available at a future time. Boulder Evening and Independent Learning wait-list positions are on a first-come, first-served basis.

You can check your position on any course wait list either on the Web at www.colorado.edu/plus or by calling CU Connect and pressing 5# (list schedule function). If you choose to wait-list for a Boulder Evening or Independent Learning course and a space becomes available, you will automatically be enrolled in the course and additional tuition and fees assessed. We, therefore, encourage you to check your position on a wait list often to avoid being charged additional tuition and fees and receiving an "F" for the course.

Account Balances
The amount of tuition you owe is available both through CU Connect and PLUS. Credit card payments, using VISA, MasterCard or Discover, can be made on CU Connect and PLUS. You can also call our accounting office at 303-492-2212 to make a credit card payment, fax your credit card information to 303-492-3962, or visit our offices at 1505 University Avenue.

Course Restrictions
Some Boulder Evening and Independent Learning courses have prerequisites and enrollment restrictions. It is your responsibility to ensure that you have met the listed prerequisites and/or restrictions. If you are unsure, please call 303-492-8252 and make an appointment with our academic advisor.

Grades
To access your grades through the Web, log on to www.colorado.edu/plus, choose "Log-On", then enter your student ID number and PIN, and choose the grades option. To access your grades through CU Connect call 303-938-8110 from any touch-tone phone, press 1 for the Boulder campus, 1 for Continuing Education, 2 for the grade code function and enter the term code (017 for fall) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=Spring, 4=Summer, 7=Fall).

Additional Web Functions
With your student identification number and PIN, in addition to registering, you are also able to find the following:
- degree program information (primary and secondary college, major, residency, gpa, and class standing)
- registration status (advising requirements and academic or financial stops)
- class schedule for all current and past terms enrolled and all future terms for which you have registered
- required textbooks (main campus courses only)
- unofficial transcripts
- current semester billing and financial aid information
- address changes
- PIN changes
- degree audit (for certain colleges)

Problems? Questions?
If you have any type of registration stop, you will not be allowed to enroll via CU Connect or PLUS. Please call our registration office at 303-492-5148 for more information on your stop. This information is also available on PLUS at www.colorado.edu/plus by signing on with your ID (student identification number) and PIN (Personal Identification Number), hit submit and choose the "Registration Status" tab at the bottom of the page.

If you need additional assistance, please call our registration office at 303-492-5148 between 8:30 a.m. and 5 p.m. Monday-Friday. If you need help after hours, a recorded message with helpful hints is available by calling 303-492-5145 and choose option "5" for CU Connect information.
INDEPENDENT LEARNING courses put you in control, with choices to make about when you learn and how you learn. Many of our courses are correspondence courses, with a printed study guide and student-instructor communication by US Postal Service (and increasingly, by e-mail). Some of our courses also have an online version, and growing numbers of our courses are delivered only on the Web, with all communication with the instructor and fellow students conducted on the Internet.

- Self-paced courses are open for registration at any time.
- Term-based courses provide rich interaction among students.
- Learn wherever you are.

So, it’s up to you to challenge yourself and to decide how you want to take a course. Complete course descriptions are available from Independent Learning Programs or on the Web: www.colorado.edu/ccwww.

<table>
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<tr>
<th>Dept.</th>
<th>Course No.</th>
<th>Section</th>
<th>Course Title</th>
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* SECTION LEGEND
65x = print-based correspondence course
64x = online, self-paced course
58x = online, term-based course
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<th>Course No.</th>
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Additional distance learning courses are available through CATECS, pages 27-28.
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* SECTION LEGEND
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  - 64x = online, self-paced course
  - 58x = online, term-based course
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*SECTION LEGEND*
65x = print-based correspondence course
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58x = online, term-based course
INDEPENDENT LEARNING

FALL 2001 TERM-BASED WEB COURSES

These courses are offered on a term basis in order to provide rich interaction with your instructor and the other students in the course. They follow a calendar of assignments and examinations. Note the term dates carefully. These courses are conducted as virtual seminars, requiring significant amounts of writing and significant amounts of interaction with the instructor and other students. Plan on 90 hours of work in addition to approximately 45 hours with the study guide.

History of World Art I
FINE 1300
3 SEMESTER HOURS

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. Students may not receive credit for both FINE 1300 and FINE 1109. Approved for arts and sciences core curriculum: literature and the arts.

Section 587 Call No. 90283
Term Dates: September 4-December 13
Instructor: Mollie Kuenstner, M.A.
Tuition: $474.

Linguistic Analysis of ASL
SLHS 4035/5035
3 SEMESTER HOURS

ASL Linguistics provides an introduction to the linguistic structures of American Sign Language, including phonology, morphology, syntax, and pragmatics. Specific goals of the course include: improving observational skills in analyzing ASL; improving understanding of the phonological structure of ASL; improving understanding of the morphological structure of ASL; improving understanding of the syntactic structure of ASL; learning about the sociolinguistic rules concerning ASL in the Deaf community; understanding the development of ASL in children. Prerequisites: knowledge of ASL, English, and permission of instructor.

SLHS 4035 Section 587 Call No. 90284
SLHS 5035 Section 587 Call No. 90285
Term Dates: September 4-December 13
Instructor: Jeffrey Davis, Ph.D.
Tuition: $597.

Discourse Analysis of ASL
SLHS 5045
3 SEMESTER HOURS

This course provides an introduction to discourse analysis, focusing on ASL and English discourse. Topics will include general discourse issues such as discourse analysis approaches, the advantages and disadvantages of qualitative and quantitative research, natural data collection, technology for research in spoken and signed languages, and topics specific to ASL, including transcription in ASL, use of space and spatial mapping, involvement strategies, discourse structures, narrative, non-manual signals (NMS), footing, contextualization cues, interpreted discourse, and turn-taking. Prerequisites: ASL Linguistics (or similar course) and permission of instructor.

Section 587 Call No. 90286
Term Dates: September 4-December 13
Instructor: Cynthia Roy, Ph.D.
Tuition: $597.
Assessing 1st and 2nd Languages
SLHS 5055
3 SEMESTER HOURS
This course is designed to introduce students to the concepts of assessment and evaluation of language skills. The focus is on assessment of second language skills of ASL students; however, there will be some discussion of assessment of first language skills in deaf children and in interpreting students. The goal of this course is to introduce general approaches to second language testing, types of language assessment and to provide the SL and/or interpreting teacher with some practical information about assessing second language skills in the classroom. Topics to be included are types of assessment, purpose of assessment, reliability, validity, issues of test construction, administration, and grading, and differentiating language skills from interpreting skills during assessment. In the course we will also explore some interpreting assessments and examine the ways that they separate the evaluation of language from the evaluation of interpreting skills. This course will provide experience in assessing second language skills; it will not include assessment of interpreting skills. This type of assessment is different from assessing language skills, and will be covered in depth in future classes. This course will be a prerequisite for any courses in interpreting assessment.

Section 587 Call No. 90287
Term Dates: September 4-December 13
Instructor: Suzette Garay, Ph.D.
Tuition: $597.

Topics in Writing:
Catcher in the Rye
UWRP 3020
3 SEMESTER HOURS
Students choose an essay, abstract its argument, analyze it, and agree or disagree with the author. They thus learn the principal modes of academic rhetoric: description, analysis, and argument. Approved for arts and sciences core curriculum: written communication. Course available via the Web only. Internet-ready computer and SLIP/PPP connection or online service required.

Section 587 Call No. 90289
Term Dates: September 4-December 13
Instructor: Lynn Gingras, M.A.
Tuition: $474.

Writing on Business and Society
UWRP 3040
3 SEMESTER HOURS
Through selected readings and daily writing assignments, students examine ethical and social issues that arise in business. Focusing on critical thinking, analytical and argumentative writing, and oral presentation, the course emphasizes effective communication with non-technical audiences. Classes are conducted as workshops. Prerequisite: junior standing. Course intended for business majors and minors. Approved for arts and sciences core curriculum: written communication. Course available via the Web only. Internet-ready computer and SLIP/PPP connection or online service required. Students must have access to and use Microsoft Word, version 6.0 or higher.

Section 587 Call No. 90290
Term Dates: September 4-December 13
Instructor: Anne Bliss, Ph.D.
Tuition: $474.

Section 588 Call No. 90291
Term Dates: September 4-December 13
Instructor: Amy Goodloe, M.A.
Tuition: $474.

APPLIED MUSIC
During fall and spring semesters the College of Music and Independent Learning offer private instruction for voice and most popular instruments. Group classes are offered for beginning guitar and piano. Private lessons are by arrangement. Students must furnish instruments, except piano. 9 hours of instruction.

2 semester hours credit. Tuition: $280.

Interested students should contact the Applied Music advisor at 303-492-5737.
HIGH SCHOOL INDEPENDENT LEARNING

IN COOPERATION WITH YOUR HIGH SCHOOL, we offer high school correspondence courses. You can take these courses with the approval of your school. Your high school grants credit when you successfully complete courses. And it's up to you to decide when and where to learn. Self-paced courses put you in control. Additional information and course descriptions are available from Independent Learning Programs or on the Web at www.colorado.edu/ceswww.

All courses are for 1 semester (half-unit) of high school credit. Registration for credit requires the approval and cooperation of the student's high school. Tuition is $90 per course. Syllabus and texts are extra.

BUSINESS EDUCATION

HBUS 1755 Office Systems
HBUS 1955 Consumer Education and Economics
HBUS 2355 Beginning Accounting I
HBUS 2455 Beginning Accounting II
HBUS 2756 Business English and Communication

ENGLISH

HENG 0155 Basic Grammar 1
HENG 0255 Intermediate Grammar
HENG 1701 The Short Story
HENG 2102 The American Short Story
HENG 2302 Basic Expository Writing
HENG 3155 Ninth Grade English 1
HENG 3255 Ninth Grade English 2
HENG 3555 Tenth Grade English 1
HENG 3655 Tenth Grade English 2
HENG 3955 Eleventh Grade English 1
HENG 4055 Eleventh Grade English 2
HENG 4355 Twelfth Grade English 1
HENG 4455 Twelfth Grade English 2

HOME ECONOMICS

HFCS 1155 Personal Adjustment and Family Living

MATHEMATICS

HMTH 0155 Basic Mathematics 1
HMTH 0255 Basic Mathematics 2
HMTH 0555 General Mathematics 1
HMTH 0655 General Mathematics 2
HMTH 0956 Business and Consumer Mathematics 1
HMTH 1056 Business and Consumer Mathematics 2
HMTH 3157 Beginning Algebra 1
HMTH 3257 Beginning Algebra 2
HMTH 3555 Geometry 1
HMTH 3655 Geometry 2
HMTH 3956 Advanced Algebra 1
HMTH 4056 Advanced Algebra 2
HMTH 4356 Precalculus 1: Analytical Geometry and Algebra
HMTH 4456 Precalculus 2: Trigonometry

HIGH SCHOOL STUDENTS may also register for CU-Boulder university courses as concurrent students, earning credit at the university and at their high school.

SCIENCE

HSCT 0156 Health Science 1
HSCT 0256 Health Science 2
HSCT 2556 Biology 1
HSCT 2656 Biology 2
HSCT 5155 Biology 3: Advanced Biology

SOCIAL STUDIES

HSST 0156 Civics
HSST 0355 Sociology
HSST 0755 Psychology
HSST 1755 Ethnic Studies and Human Relations
HSST 2157 World Geography 1
HSST 2257 World Geography 2
HSST 3156 World History 1
HSST 3256 World History 2
HSST 3357 American History 1
HSST 3457 American History 2
HSST 3756 American Government: Theories, Policies, and Politics
HSST 3857 American Government: National Level

STUDY SKILLS

HSTS 0101 Effective Methods of Study

INDEPENDENT LEARNING – IT’S UP TO YOU.

On the Web: www.colorado.edu/ceswww
303-492-8757 (toll free, 800-331-2801)
CATECS (Center for Advanced Training in Engineering and Computer Science)

CATECS offers professionals a way to continue their education at a distance from campus:

- Graduate engineering courses delivered to your worksite via live microwave TV broadcasts with two-way audio and via videotape.
- Master's degree programs and some certificate programs are available in Aerospace Engineering, Computer Science, Electrical and Computer Engineering, Engineering Management, Mechanical Engineering and Telecommunications.
- Courses given during the semester can be taken for professional development or toward a master's degree.
- Courses given in previous semesters can also be taken for credit or noncredit and are available for rent or purchase on videotape through the CATECS tape library.

**AEROSPACE ENGINEERING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASEN 5007</td>
<td>Introduction to Finite Elements</td>
<td>Felippa</td>
<td>12:30-1:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>ASEN 5054</td>
<td>Operations Research Models for System Engineering</td>
<td>Morgenthaler</td>
<td>11 a.m.-12:15 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>ASEN 5168</td>
<td>Remote Sensing Instrumentation</td>
<td>Emery</td>
<td>11-11:50 a.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>ASEN 5227</td>
<td>Aerospace Mathematics 1</td>
<td>Morgenthaler</td>
<td>2-3:15 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>ASEN 5417</td>
<td>Numerical Methods for Differential Equations</td>
<td>Biringen</td>
<td>3:30-4:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>ASEN 5519</td>
<td>Adaptive Control of Flexible Structures</td>
<td>Balas</td>
<td>5-6:15 p.m.</td>
<td>MW</td>
</tr>
</tbody>
</table>

**CIVIL ENGINEERING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 5226</td>
<td>Quality and Safety</td>
<td>Brown</td>
<td>1-1:50 p.m.</td>
<td>MWF</td>
</tr>
</tbody>
</table>

**COMPUTER SCIENCE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5273</td>
<td>Network Systems</td>
<td>Mishra</td>
<td>12:30-1:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>CSCI 5535</td>
<td>Fundamental Concepts of Programming Languages</td>
<td>Diwan</td>
<td>1-1:50 p.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>CSCI 5582</td>
<td>Artificial Intelligence</td>
<td>Martin</td>
<td>11 a.m.-12:15 p.m.</td>
<td>MW</td>
</tr>
<tr>
<td>CSCI 5593</td>
<td>Advanced Computer Architecture</td>
<td>Gruwald</td>
<td>12:30-1:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>CSCI 7717</td>
<td>Topics in Database Systems</td>
<td>King</td>
<td>5:30-6:45 p.m.</td>
<td>MW</td>
</tr>
</tbody>
</table>

**ELECTRICAL AND COMPUTER ENGINEERING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECEN 5016</td>
<td>Fundamentals of Photonics</td>
<td>Piestun</td>
<td>12:30-1:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>ECEN 5139</td>
<td>Synthesis of VLSI Systems</td>
<td>Somenzi</td>
<td>12-12:50 p.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>ECEN 5448</td>
<td>Advanced Linear Systems</td>
<td>Meyer</td>
<td>11-11:50 a.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>ECEN 5523</td>
<td>Compiler Construction Tools</td>
<td>Waite</td>
<td>11-11:50 a.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>ECEN 5797</td>
<td>Power Electronics 1</td>
<td>Erickson</td>
<td>2-2:50 p.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>ECEN 5831</td>
<td>Brains, Minds and Computers</td>
<td>Wachtel/Beeman</td>
<td>12:30-1:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>ECEN 6003</td>
<td>Digital VLSI Circuit Design</td>
<td>Khatri</td>
<td>5-6:15 p.m.</td>
<td>TR</td>
</tr>
</tbody>
</table>

**ENGINEERING MANAGEMENT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMEN 5010</td>
<td>Introduction to Engineering Management</td>
<td>Daughton</td>
<td>2-4:30 p.m.</td>
<td>M</td>
</tr>
<tr>
<td>EMEN 5020</td>
<td>Accounting and Finance for Engineering Managers</td>
<td>Hensler</td>
<td>2-4:30 p.m.</td>
<td>W</td>
</tr>
<tr>
<td>EMEN 5030</td>
<td>Project Management Systems</td>
<td>Daughton</td>
<td>3:30-4:45 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>EMEN 5300</td>
<td>Management of R&amp;D</td>
<td>TBA</td>
<td>2-4:30 p.m.</td>
<td>F</td>
</tr>
<tr>
<td>EMEN 5500</td>
<td>Operations Management</td>
<td>TBA</td>
<td>5-7:30 p.m.</td>
<td>R</td>
</tr>
<tr>
<td>EMEN 5900</td>
<td>Research Techniques in Engineering Management</td>
<td>Young</td>
<td>12-12:50 p.m.</td>
<td>MWF</td>
</tr>
</tbody>
</table>

**MECHANICAL ENGINEERING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCEN 5126</td>
<td>Applied Statistics for Manufacturing and Process Industries</td>
<td>Clough</td>
<td>3:30-4:45 p.m.</td>
<td>TR</td>
</tr>
</tbody>
</table>
## Telecommunications

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Time</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLEN 5190</td>
<td>Telecommunications Standards</td>
<td>Schoechle</td>
<td>5-7 p.m.</td>
<td></td>
</tr>
<tr>
<td>TLEN 5300</td>
<td>Telecommunications Theory and Applications</td>
<td>Mitchell</td>
<td>8-9:15 a.m.</td>
<td>TR</td>
</tr>
<tr>
<td>TLEN 5310</td>
<td>Telecommunications Systems</td>
<td>Mitchell</td>
<td>8-9:15 a.m.</td>
<td>MW</td>
</tr>
<tr>
<td>TLEN 5330</td>
<td>Data Communications 1</td>
<td>Gates</td>
<td>8-9:15 a.m.</td>
<td>TR</td>
</tr>
<tr>
<td>TLEN 5340</td>
<td>Digital Telecommunications Networks</td>
<td>Thompson</td>
<td>5:30-8 p.m.</td>
<td>T</td>
</tr>
<tr>
<td>TLEN 5350</td>
<td>Satellite Communications</td>
<td>Mitchell</td>
<td>9:30-10:45 a.m.</td>
<td>MW</td>
</tr>
<tr>
<td>TLEN 5500</td>
<td>Cable TV</td>
<td>Bardsley</td>
<td>11 a.m.-12:15 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>TLEN 5510</td>
<td>Wireless Communications</td>
<td>Brown</td>
<td>2-2:50 p.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>TLEN 5832</td>
<td>Engineering Economics</td>
<td>Savage</td>
<td>4-4:50 p.m.</td>
<td>MWF</td>
</tr>
<tr>
<td>TLEN 5834</td>
<td>Network Programming</td>
<td>Robertson</td>
<td>5:30-8 p.m.</td>
<td>T</td>
</tr>
<tr>
<td>TLEN 5835</td>
<td>Economics, Policy and Management</td>
<td>Bardsley</td>
<td>2-3:15 p.m.</td>
<td>TR</td>
</tr>
<tr>
<td>TLEN 5838</td>
<td>Optical Communications</td>
<td>Feuerstein</td>
<td>5-6:15 p.m.</td>
<td>MW</td>
</tr>
</tbody>
</table>

## Web Courses in Telecommunications

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>TLEN 5300W</td>
<td>Telecommunications Theory and Applications</td>
<td>Mitchell</td>
</tr>
<tr>
<td>TLEN 5340W</td>
<td>Digital Telecommunications Networks</td>
<td>Thompson</td>
</tr>
<tr>
<td>TLEN 5500W</td>
<td>Cable TV</td>
<td>Bardsley</td>
</tr>
<tr>
<td>TLEN 5600W</td>
<td>Telecommunications Seminar</td>
<td>Hatfield</td>
</tr>
<tr>
<td>TLEN 5700W</td>
<td>Telecommunications Capstone Seminar</td>
<td>Brown</td>
</tr>
</tbody>
</table>

## How to Register for CATECS Courses

Registration for Fall 2001 Courses: July 16-August 10

Late Registration: August 11-31

1. Complete the registration form available from our web site at [www.colorado.edu/CATECS](http://www.colorado.edu/CATECS) or from the CATECS office at 303-492-6331.

2. Mail, fax or bring your registration form to CATECS (do not both fax and mail your form). If faxing, call the same day to confirm receipt.

3. You will receive a confirmation packet by mail within two weeks of receipt.

4. Call the CU Book Store about three weeks prior to the first class to verify the correct text(s) and place your order: 800-255-9168 or 303-492-3444 or online at [cubooks.colorado.edu](http://cubooks.colorado.edu).

5. Tuition for all CATECS courses is $1,200 per course.
ACCESS PROGRAM

Want to take a credit course at CU-Boulder during the day? Perhaps you're interested in a particular class for personal or professional development or plan to enroll in a degree program in the future. Each Fall and Spring, the ACCESS (Available Credit Courses for Eligible Special Students) program enables nondegree students to enroll in Boulder main campus undergraduate or graduate courses after most degree-seeking students have registered.

Registration for Fall semester begins Friday, August 24 and classes begin Monday, August 27. Call 303-492-6226 for more information or visit the ACCESS web site at www.colorado.edu/content/access.htm

HIGH SCHOOL CONCURRENT PROGRAM

High school students interested in the challenge of university coursework may enroll in credit courses at the University of Colorado at Boulder through the High School Concurrent Program. In addition to earning college credit, students may also earn credit toward high school graduation requirements.

During the Fall and Spring semesters, high school juniors and seniors may request tuition reimbursement from their school district for the successful completion of up to two university courses each term. You must notify your counselor of your intent to enroll at least two months prior to the beginning of the term. You may register for main campus courses through the ACCESS (Available Credit Courses for Eligible Special Students) Program or enroll in Boulder Evening credit courses. Call 303-492-6226 for an application and more information or visit the High School Concurrent web site at www.colorado.edu/content/hisoncur.htm

SUMMER SESSION

Are you thinking ahead to Summer 2002? Consider Summer Session at CU-Boulder.

Classes are smaller, more relaxed and more personal. Different terms allow you to take classes and have time to work, travel, relax or participate in an internship.

Many students appreciate the opportunity to focus on math, biology, chemistry or physics during the summer. Have you always wanted to take a drawing, painting or art history class? Summer is the time. Interested in business, journalism, engineering or music classes? Check out the summer 2002 offerings. Enjoy Boulder in the summer and take advantage of more than 500 classes.

We welcome high school students, undergraduates, graduate students and others to join us in Boulder. Different terms help you plan the classes you need around your schedule. Consider taking one class in the 3-week Maymester. There are also 5-week, 8-week, 10-week and intensive terms.

For more information on Summer Session call 303-492-5148 or visit the web site at www.colorado.edu/sacs/summer to request a Summer Session catalog.
"I paint because
I’m curious to see where
an idea might take me."

Christina Craig
Introduction to Oil Painting
Intermediate Painting
PERSONAL ENRICHMENT courses enable you to enjoy courses tailored to your personal interests in a convenient, noncredit format. The program includes a broad range of popular offerings including foreign language study, creative writing, and fine arts classes. These classes are just for you – just for fun!

- Bonjour! Hola! Learn a new language.
- Write that Great American Novel.
- Tap into your creative side with painting and drawing.
- Learn how to take the perfect photo.

Tuition and classroom information is listed at the end of each course description. Early registration is advised as class sizes are limited. Full refunds are given on request prior to the second class meeting. Please keep in mind that non-attendance or non-payment does not constitute withdrawal. If you would like to withdraw from a course, contact the Division of Continuing Education. Only preregistered students may attend class.

Foreign Language Classes
Students enrolled in Continuing Education Foreign Language classes may use the University of Colorado Anderson Language Technology Center (ALTEC). Located in Hellens Hall, the lab provides state-of-the-art audio, video, and print materials for language students. A receipt for your Continuing Education language class is all that you need to use the facility.

Fine Arts Classes
Fine Arts students should call our registration office at 303-492-5148 for a supply list or visit our web site at www.colorado.edu/conted/ncfa.htm

Proof of Completion
On occasion, students enrolled in personal enrichment courses require proof that they completed their course. Attendance of at least half of the class sessions is required for completion of the course. Upon request, students who have completed their course will be provided with a letter of completion and/or a noncredit transcript.

Scholarships
Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. August 13 is the application deadline. Scholarship awards range up to $365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/scholar.htm.

Faculty/Staff Registration
Permanent, full-time CU-Boulder faculty and staff are eligible for a 25% discount off tuition. Proof of appointment is required to receive this discount. Call 303-492-5148 for more information.

"To me painting is ultimately about making a connection with someone who’ll later view the work. But on a more immediate level, it’s about exploration and having fun." Christina Craig prefers to begin a painting with no preconceptions of how it will end up. "I paint because I’m curious to see where an idea might take me. It’s no fun if you know the ending before you start." As a teacher, Christina aims to share with her students her excitement about the experience of painting. The message is getting through. One of Christina’s students recently told her, “I’m going to paint for the rest of my life because I love the way I feel when I’m doing it.”
FINE ARTS
Fearless Basic Photography
Creative Photography Workshop
Figure Drawing
Water Media
Sculpture: Stonecarving
Introduction to Drawing
Introduction to Oil Painting
Intermediate Painting
Basic Sculpture
Commercial and Digital Photo Workshop

FOREIGN LANGUAGES
Chinese: Beginning Conversational and Written Skills
Chinese: Conversational and Written Skills for Advanced Beginners
French: Beginning Conversational Skills
French: Conversational Skills for Advanced Beginners
German: Beginning Conversational Skills
Italian: Beginning Conversational Skills
Italian: Conversational Skills for Advanced Beginners
Japanese: Beginning Conversational and Written Skills
Japanese: Conversational Skills for Advanced Beginners
Spanish: Beginning Conversational Skills
Spanish: Conversational Skills for Advanced Beginners
Spanish: Intermediate Conversational Skills

LIFESTYLES
Managing Stress in a Changing World

THEATRE
Your Stories, Your Voice! ~ Solo Performance

WRITING
How to Write Magazine Articles...and Get Them Published
Creative Writing
Short Story Workshop
The Children’s Book: Writing, Illustrating and Publishing
Poetry Workshop
Creative Writing Workshop
FINE ARTS

Fearless Basic Photography
NCFA 001
This is a how-to course for beginning photographers. Come prepared to have fun while learning how to operate your 35mm camera. We will cover lens, film, accessories, exposure, composition, and technique. You will discover how easy it is to take great photographs. Participants in the class will be given photo assignments and encouraged to engage in critiques of class work. Bring your 35mm camera (any variety) and enthusiasm for learning a new skill.

Roddy MacInnes, M.F.A., candidate at CU-Boulder, received his B.A. in Photographic Studies from Napier University in Edinburgh, Scotland. He has traveled extensively in the U.S. and Canada.

Section 300: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Economics 13. 8 sessions. $160.

Creative Photography Workshop
NCFA 002
Learn about amazing new films and special effects, telephoto and wide angle lens use, filters, electronic flash, macro shots, action, professional tricks and composition. Receive an introduction to digital photography with Adobe Photoshop, and detailed darkroom instruction covering black and white printmaking and color enlargements from negatives. The course includes four 2-hour classroom periods, two 3-hour darkroom classes, and three weeks unlimited use of the black and white and color darkrooms. Access to the computer imaging equipment is based on student proficiency. The cost of the darkroom chemicals is included, but you must provide your own film and paper after the first class. Bring your own camera to the first class.

Don Oberbeck is a professional photographer who has taught for over 20 years. He also runs the Boulder Photo Center.

Section 300: Thursdays, September 27-November 29 (no class November 22), 7:30-9:30 p.m. Economics 2. 9 sessions. $205.

Figure Drawing
NCFA 005
This course explores the fundamentals of drawing the human figure. The activities are divided into eight learning units. The beginning of the course explores various tools and mark making within the realm of black and white. Students will add to their experimentation by including tools of color and applications such as color schemes, mood, effects on shading, and perspective. We will discuss all aspects of creating a successful composition throughout the course. This class will not meet on October 31. Call 303-492-5148 for a supply list.

Sandy Lane, M.F.A., from CU-Boulder, exhibits her work internationally and is a member of the EDGE gallery. She teaches drawing, painting, print making, and computer imaging to students of all ages.

Section 300: Wednesdays, September 12-November 7 (no class October 31), 6:30-8:30 p.m. Fine Arts N298. 8 sessions. $170.

Water Media
NCFA 009
This class is designed to introduce students to a variety of watercolor applications. Discussions focus on understanding color and developing the composition and techniques. Students explore watercolor as a medium to record visual information in their journal as well as in finished work. The class examines a variety of resources such as the still life, human figure, and photograph. Call 303-492-5148 for a supply list.

Sandy Lane, M.F.A., from CU-Boulder, exhibits her work internationally and is a member of the EDGE gallery. She teaches drawing, painting, print making, and computer imaging to students of all ages.

Section 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Fine Arts N298. 8 sessions. $170.

Additional fine arts courses are available through Boulder Evening, page 11.

Sculpture: Stonecarving
NCFA 011
Students will learn to conceptualize sculptural images and ideas and express them in stone. To bring out the elements of a basic sculptural form we will examine basic techniques referring to: reducing the stone block, pitching and punching, rubbing and polishing. An illustrated discussion of stone sculptures, tools and materials, and where to purchase these is included. Call 303-492-5148 for a supply list.

Barbara Cox, M.A., is a local sculptor and instructor who received her training in Austria, the Fine Arts Academy in Munich, and at CU-Boulder. She has taught art classes since 1971.

Section 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Fine Arts C102. 8 sessions. $170.

Introduction to Drawing
NCFA 020
Learn to translate your observations through drawing! You will explore line, value, texture, perspective and more. Working with different materials, such as paper, pencil, graphite, ink, charcoal and house paint, you will experience the different approaches to contemporary drawing. No experience is necessary to start drawing now! Supplies will cost approximately $50. Call 303-492-5148 for a supply list.

Kimberlee Sullivan, M.F.A., in painting and drawing from CU-Boulder, is an associate of the Rocky Mountain Women's Institute. Her work is on display at the Carson Masukoa Gallery in Denver.

Section 300: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Fine Arts C153. 8 sessions. $170.

Christopher Hon is taking Beginning Conversational Spanish. Many students choose Continuing Education at CU because it’s convenient and close to home. They also respect its educational reputation. Continuing Education students know CU has a lot to offer nontraditional students.
Basic Sculpture
NCFA 054
Designed for students of all levels, this class covers the fundamental principles and design elements of sculpture. Students will use a variety of tools and materials for basic modeling, building and sculptural fabrication techniques. Demonstrations will include the use and application of clay, stone, plaster, metal and wood. Students will receive a materials list upon registration.

Barbara Cox, M.A., is a local sculptor and instructor who received her training in Austria, the Fine Arts Academy in Munich, and at CU-Boulder. She has taught art classes since 1971.

Section 300: Wednesdays, September 12-October 31, 6:30-8:30 p.m. Fine Arts C102. 8 sessions. $170.

Commercial and Digital Photo Workshop
NCFA 061
This course will begin with an overall description of what is considered “commercial” photography, and will move on to cover how to find and service clients, studio setup, lighting and photographic equipment. We will employ all formats of traditional and digital photographic equipment. Throughout this course students will view slides and digital images and discuss art direction, digital manipulation, pre-press production, and the process of moving images from concept to final result. Students are expected to have an intermediate knowledge of photography and will be able to use the studio and its resources at designated times for their projects.

Tim Benko has 20 years experience as photographer and owner of Benko Photographics, shooting all formats for a large variety of commercial clients. With the first digital photo studio in Boulder, Tim is an advocate and pioneer of the “Digital Photography Revolution”.

Section 300: Tuesdays, September 11-October 16, 7-9 p.m. Benko Photographics in Boulder. 6 sessions. $145.

Olivia Carlson has been impressed with the Continuing Education classes she’s taken at CU. In fact, she’s enjoyed them so much that she’s decided to pursue a degree in social science. Olivia describes Continuing Education at CU as a “good resource for nontraditional students.” Her most recent class is Beginning Conversational Spanish. Olivia says, “I think it’s valuable for people to know a second language, and learning Spanish has made me want to learn more.” Olivia plans to put her Spanish skills to the test when she takes her vacation in Mexico.
French:
Beginning Conversational Skills
NCFL 100
Designed for students with little or no knowledge of French, this course covers grammar but emphasizes conversational skills. Cultural aspects of French life and practical conversation for travelers will also be covered. Text, *Parlons Francois I*, available at the CU Book Store.

*Nadia Turc, Ph.D.*, has taught French and Arabic at CU-Boulder since 1982.

Section 300: Tuesdays, September 11-November 13, 6:30-8:30 p.m. Hellem's 267. 10 sessions. $210.

French: Conversational Skills for Advanced Beginners
NCFL 200
Students should be able to use the present tense before taking this class. Increased vocabulary and speaking skills are stressed. Textbook, *Parlons Francois II*, available at the CU Book Store.

*Nadia Turc, Ph.D.*, has taught French and Arabic at CU-Boulder since 1982.

Section 300: Thursdays, September 13-November 15, 6:30-8:30 p.m. Hellem's 137. 10 sessions. $210.

German:
Beginning Conversational Skills
NCFL 101
Designed for students with little or no knowledge of German, this course covers grammar but emphasizes practical conversation for travelers. In addition students will learn cultural aspects to gain insight into German life today.

*Patricia Marchesi* earned her M.A. in German from CU-Boulder and teaches first and second year German courses on campus.

Section 300: Thursdays, September 13-November 8 (no class October 4), 6-8 p.m. Hellem's 237. 8 sessions. $170.

Italian:
Beginning Conversational Skills
NCFL 102
This course examines the basics of Italian conversational grammar as well as various aspects of modern Italian culture and the Italian way of life. Participants will learn the elements of the language, view videos, and hold open discussions. Required text, *Italianissimo I*, available at the CU Book Store.

*Tina Pagliero* has an M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy. She has taught film study in Rome, along with Italian classes to non-Italian students in private schools there. Tina teaches all levels of Italian at CU.

Section 301: Mondays, September 10-October 29, 6-8 p.m. Hellem's 251. 8 sessions. $170.

Section 302: Tuesdays and Thursdays, September 11-October 4, 6-8 p.m. Hellem's 193. 8 sessions. $170.

Italian: Conversational Skills for Advanced Beginners
NCFL 202
Review basic grammar concepts introduced in Beginning Italian as well as expand on vocabulary and expressions essential for conversational fluency in Italian. The course will continue to integrate aspects of modern Italian life and culture. Required text, *Italianissimo I*, is available at the CU Book Store.

*Tina Pagliero* has an M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy. She has taught film study in Rome, along with Italian classes to non-Italian students in private schools there. Tina teaches all levels of Italian at CU.

Section 300: Tuesdays, October 9-November 27, 6-8 p.m. Hellem's 181. 8 sessions. $170.

Japanese:
Beginning Conversational and Written Skills
NCFL 104
We stress polite, practical, and colloquial Japanese in order to build a foundation of survival skills and understand how the language works. Reading simple signs and texts is introduced.

*Mori Murata* is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 300: Mondays and Wednesdays, September 10-October 3, 6-8 p.m. Hellem's 185. 8 sessions. $170.

Japanese: Conversational Skills for Advanced Beginners
NCFL 204
This second-level course continues the development of oral and written skills. The course is designed for students with an introductory knowledge of Japanese learned from a year or more of high school Japanese, a semester or more of college, or extensive travel in Japan.

*Mori Murata* is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 300: Mondays and Wednesdays, October 8-31, 6-8 p.m. Hellem's 185. 8 sessions. $170.
Spanish: Beginning Conversational Skills
NCFL 103
Elizabeth Medina, Ph.D., is a native of Cuba and has taught at CU-Boulder since 1977.
Section 301: Tuesdays, September 11-October 30, 7-9 p.m. Hellums 271.
8 sessions. $170.
Izta Zavala, M.A., is a native speaker from Mexico City and is working on her Ph.D. in Spanish at CU-Boulder. She has 7 years experience teaching Spanish in the U.S.
Section 302: Wednesdays, September 12-October 31, 6:30-8:30 p.m. Hellums 137.
8 sessions. $170.
Wendy Mendez is a graduate student in Spanish at CU-Boulder and has taught high school Spanish in New York. She is a native of the Dominican Republic.
Section 303: Mondays and Wednesdays, October 1-24, 6:30-8:30 p.m. Hellums 237.
8 sessions. $170.
Spanish: Conversational Skills for Advanced Beginners
NCFL 203
Build vocabulary, learn the past tense, and review grammar to develop accuracy and proficiency in the use of the language. Prerequisite: Beginning Spanish or equivalent. Required text: "Getting Along in Spanish," by Jarvis, available at the CU Book Store.
Izta Zavala, M.A., is a native speaker from Mexico City and is working on her Ph.D. in Spanish at CU-Boulder. She has 7 years experience teaching Spanish in the U.S.
Section 301: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Hellums 137.
8 sessions. $170.
Wendy Mendez is a graduate student in Spanish at CU-Boulder and has taught high school Spanish in New York. She is a native of the Dominican Republic.
Section 302: Mondays and Wednesdays, November 5-28, 6:30-8:30 p.m. Hellums 237. 8 sessions. $170.
Spanish: Intermediate Conversational Skills
NCFL 303
An opportunity to build vocabulary and conversational ability and address cultural and social aspects. Prerequisite: Beginning Spanish or equivalent. Required text: "Passage: Lengua," by Bretz, available at the CU Book Store.
Elizabeth Medina, Ph.D., is a native of Cuba and has taught at CU-Boulder since 1977.
Section 300: Thursdays, September 13-November 1, 7-9 p.m. Hellums 259.
8 sessions. $170.
LIFESTYLES
Managing Stress in a Changing World
NC L 009
In the ever-changing world we live in, stress and change are now considered one and the same. Experts agree that change is only going to increase, so how effective are your coping skills? This introductory course is designed to expose you to a sound, holistic approach to stress management involving the integration of balance and harmony of mind, body, spirit, and emotions. You will be introduced to excellent coping skills and a host of effective relaxation techniques. We will discuss the nature of stress, the relation between stress and disease as well as the value of stress reducing strategies like meditation, art, music, yoga, humor, nutrition, and more. Our goal will be to not only prevent and alleviate the physical symptoms of stress, but to learn to thrive in times of stress and bring you back to a sense of balance.
Brian Luke Seaward is a nationally recognized expert in the field of stress management, stress and spirituality, and mind-body-spirit healing. He earned a Ph.D. from the University of Maryland in Health Wellness and regularly teaches a kinesiology course for Continuing Education's Boulder Evenings Program. Luke has published several books including the popular best sellers Managing Stress, Stand Like a Mountain, Flow Like Water, Stressed Is Desserts Spelled Backwards, and The Health of the Human Spirit.
Section 300: Tuesdays, September 11-October 16, 7-9 p.m. Clare Small 301.
6 sessions. $120.
THEATRE
Your Stories, Your Voice!: Solo Performance
NCTH 028
Create your own solo performance from script to stage! Write a three to seven minute piece from your own experience or imagination that will be revised and rehearsed in class to culminate in a theatre performance open to your invited guests and the general public. Each class will open with acting warm-ups and improvisational exercises to draw out each individual's expressiveness. In a safe environment we will experiment with many writing and performance exercises to help each student arrive at an engaging script and performance. Invaluable experience will be gained by aiding each other along the creative process - solving problems and moving forward. All levels of experience in writing and performance are welcome. Experience the exhilaration of performing your own creation for a live audience!
Beth Owses completed her Ph.D. in Theater from CU-Boulder and teaches for the Honors Department on campus. She has written and performed numerous original works in the Boulder/Denver area. Beth is working on a book on theatre throughout the world and recently completed research in Southeast Asia.
Section 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Economics 2.
8 sessions. $160.
How to Write Magazine Articles...and Get Them Published
NC W 005
From sure-to-sell query letters to sure-to-happen publication, learn all the steps to successful magazine article writing and sales. We will cover what editors look for, query letters, catchy openings, how to write an organized yet creative article, and finally how to market the finished product. The instructor also works individually with students' articles. This class will not meet on Monday, September 24.

Nancy Rasmussen has published over 50 articles in national and local publications and has taught magazine article writing for 10 years. She currently writes and proofreads for the CU-Boulder alumni magazine The Coloradan.
Section 300: Mondays, September 10-October 22 (no class September 24), 6:30-8:30 p.m. Ketchum 120. 6 sessions. $120.

Creative Writing
NC W 006
Creative Writing is a great method for exploring and expanding your creative voice. Through in class language games and imaginative exercises, we will explore dialog, characterization, narrative, and style, in addition to discussing relevant books. If you have stories to tell, or think that the time has come to express your creativity, this class will show you ways to go forward.

Naomi Rachel (M.A. English Literature/M.F.A. Creative Writing) is a professional writer with over 300 publications in regional and national publications.
Section 300: Wednesdays, September 26-November 14, 7-9 p.m. Hellem 263. 8 sessions. $160.

Short Story Workshop
NC W 008
Designed for both beginning and experienced writers, this course covers all aspects of writing the short story, including characterization, plot, setting, theme, and developing one's own style and voice. For the first 3 weeks students will explore various topics through lecture, discussion, and in-class writing exercises. The rest of the course will follow a workshop format where students bring their stories-in-progress to class to receive helpful editorial suggestions. The course also includes discussion of the marketplace and how to prepare and submit manuscripts for publication.

Robert McBraery, M.F.A. from the Iowa Writers' Workshop, has recently published a collection of short stories, A Night at the Y.
Section 300: Tuesdays, September 18-October 30, 6:30-8:30 p.m. Hellem 259. 7 sessions. $140.

The Children's Book: Writing, Illustrating, and Publishing
NC W 012
Ever dreamed of writing or illustrating a children's book? Learn the entire process, from the cultivation of ideas to the published work. We'll cover manuscript development, illustration techniques, picture layouts, self-publishing and submitting manuscripts to publishing companies. We'll take an in depth look at how straightforward and profitable it is to self-publish your own work. Feel free to bring your own work for support and advice.

Kerry MacLean, B.A., has written, illustrated and self-published five children's books, including the award winning Pigs Over Boulder.
Section 300: Saturday, November 10, 9 a.m.-4 p.m. Continuing Education Center, Room 140, 1505 University Avenue. 1 session. $100.

Poetry Workshop
NC W 042
This class will provide you with a potpourri of inspirations and occasions for writing poetry, from sensory triggers and experimentation with forms to the exploration of memory and everyday experience. We will pay particular attention to the development of image and metaphor. We will spend part of our time writing and then share what we have written. We will also workshop what class members have written outside of class. This class will make you a part of the circulation of ideas for and about poetry and most of all, you will renew your commitment to writing!

Sally Green is a published poet with an M.A. in Creative Writing from the University of Colorado.
Section 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Hellem 177. 8 sessions. $160.

Creative Writing Workshop
NC W 106
Students who have already taken Creative Writing classes, or who have been writing on their own, will be able to workshop (analyze their work) in a supportive atmosphere. The topics covered and the imaginative assignments will relate to the work that the students are doing. We will also have assigned readings relating to the issues brought up in the workshop. Emphasis will be on improving the work, and exploring ways to develop your individual voice. This class will not meet on October 4.

Naomi Rachel (M.A. English Literature/M.F.A. Creative Writing) is a professional writer with over 300 publications in regional and national publications.
Section 300: Thursdays, September 20-November 15 (no class October 4), 7:30-9:30 p.m. Hellem 271. 8 sessions. $160.
"The Computer is an enabling tool."

Rob Schmidt
Introduction to Windows 2000 Administration
COMPUTER APPLICATIONS

COMPUTERS ARE BECOMING more and more important in our everyday life: for research, communication, planning and record keeping, creative endeavors, or just for keeping in touch with family and friends. Learn how to do what you need to do better, faster and more easily. We offer top-notch instruction by professionals who are experts in their fields, as well as certificate programs in Network Administration, Programming and Web Site Design. Our program can help you:

• Enhance your basic computer skills.
• Position yourself for a career change.
• Build advanced technical skills.

GENERAL COURSE INFORMATION

Prerequisites
Required prerequisites are listed at the end of each course description. The prerequisite(s) must be completed before you attend the course. Equivalent experience and/or course(s) from another institution may be accepted in place of the prerequisite(s). If you are unsure you have the necessary background to satisfy the prerequisite requirement, please call 303-492-6596.

Grading Policy
All courses are noncredit, however (S)atisfactory or (U)nsatisfactory grades will be issued by the instructor at the end of the course. Grades are determined by your class attendance (at least 75% of class attendance is needed in order to receive an S grade) and/or other factors such as your understanding of course material, homework assignments and quizzes.

If you are working toward a certificate in Computer Applications, Programming, Network Administration, or Web Site Design, you must receive a satisfactory grade in all the courses that apply toward your certificate. If you receive an unsatisfactory grade and wish to obtain a certificate, you must take the course over again and obtain a satisfactory grade.

Textbooks
Certain courses require or recommend textbooks. This will be indicated in the course descriptions. All textbooks are available at the University Book Store in the University Memorial Center (UMC), room number 10, or visit their web site at cubooks.colorado.edu.

OTHER MISCELLANEOUS INFORMATION

Enrollment Limits
Enrollment is limited by the number of computers or seats available in each classroom. Only registered students are allowed into class.

Classroom Locations
Classroom locations are indicated at the end of the course descriptions. The majority of courses offered through the Computer Applications Program are held at the following locations:

• University Computing Center (UCC) on 3645 Marine (at the corner of Arapahoe and Marine)
• University Management Systems (UMS) building on 4780 Pearl East Circle (east of Foothills Parkway on Pearl)
• Division of Continuing Education (CEDU) on 1505 University Ave.
• Humanities (HUMN) building on the main CU campus.

Refer to the map on page 65 for other course locations.

Drop Deadlines and Refund Policy
Once you enroll, it is your responsibility to attend the course or drop from it in a timely manner. To receive a refund, you must drop the course before it begins. Once the course begins, no refund will be issued as we will not be able to replace your seat in class.

Course Cancellations
Courses may be cancelled due to low enrollment. To reduce the risk of a course being cancelled, we ask students to please register at least one week prior to the first class meeting.

Faculty/Staff Discounts
Permanent full-time CU-Boulder faculty and staff are eligible for a 25% tuition discount. A copy of your current employment record is required to receive this discount. Call 303-492-5148 for more information.

Scholarships
Students who are 25 years of age or older may be eligible for the Nontraditional Student Scholarship for Continuing Education courses. August 13 is the application deadline. Scholarship awards range up to $365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

Notes
The symbol next to a course title signifies it is a lecture-based only course. All other courses are hands-on or part lectured and part hands-on. Please note that most hands-on courses will take place in a PC lab, unless otherwise specified.

Our course numbers have changed; however, most course titles are still the same. If you have any questions regarding the new course numbers, call 303-492-5148.

If you have any other questions, please call the Division of Continuing Education at 303-492-5148, or outside the Denver Metro area, 800-331-2801.

Visit our web site at www.colorado.edu/conted/computer.htm.
CERTIFICATE PROGRAMS

The Computer Applications Program offers three certificate programs: Network Administration, Web Site Design and Programming. These certificates are designed for beginners, as well as those with intermediate skills in these fields. The courses required for each certificate offer a mix of in-depth theoretical knowledge and real-world experience. Upon completion of the certificate, you should have a good understanding of the basic skills and concepts in the specific field you have chosen. The certificates are not designed to be completed within one semester, but must be completed within three years.

All courses listed under each certificate program must be taken for successful completion of the certificate. If you feel a course within the certificate requirements is too basic, you may replace this course with another course within the Computer Applications Program. The course you plan to use as a substitute must relate to the certificate you are working on. Approval must be obtained for the substitution. You may substitute up to two courses only. For a substitution request, complete a form at www.colorado.edu/conted/cpsub.htm and send it to the Computer Applications Program, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178. You may also e-mail us at cceas@colorado.edu.

You must receive a satisfactory grade in all the courses that apply toward your certificate. If you receive an unsatisfactory grade, you must take the course over again and obtain a satisfactory grade.

Once you have completed all the requirements for your certificate, please send a written request for your certificate. Send the request via e-mail to cceas@colorado.edu or to the Computer Applications Registrar, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178.

* Please note that the certificate in Computer Applications has been discontinued. If you started this certificate prior to Summer 2001, you may proceed with completing the requirements. However, there is no guarantee that all the courses for this certificate will be offered. Please contact the Computer Applications Program at 303-492-8596 if you have any questions or concerns.

CERTIFICATE IN NETWORK ADMINISTRATION

For this certificate, you must complete the required courses in one of the two tracks (Windows/Intel or UNIX), the operating systems courses, the Wide Area Network course, an elective administrative course, a programming course and a database course.

A. Choose One of the Following Tracks

1. Windows/Intel Track (both courses in this track are required)
   - CANW 1001 Introduction to Networks
   - CANW 5101 Network Administration

2. UNIX Track (both courses in this track are required)
   - CANW 2301 Introduction to UNIX
   - CANW 3301 Intermediate UNIX

   CANW 3301 is highly recommended, but not required.

B. Operating Systems (both courses are required)
   - CANW 3101 Computer Architecture
   - CANW 4101 Network Operating Systems

C. Required Wide Area Network Course
   - CANW 5401 Wide Area Networking Topics

D. One Administration Course (select one):
   - CANW 2211 Introduction to Windows 2000 Administration
   - CANW 3211 Intermediate Windows 2000 Administration
   - CANW 5301 UNIX System Administration

E. Programming Course
   - Choose one programming course. (See page 55 for course listings.)

F. Database Course
   - Choose one database course. (See page 46 for course listings.)

CERTIFICATE IN WEB SITE DESIGN

This certificate is all hands-on. To ensure you get the most out of the course and can actively participate, please make sure you complete the prerequisites first. The courses are short and fast-paced, with minimal review of materials from the prerequisites.

For this certificate, you must complete the six required core courses, one multimedia course, one graphics course, one elective course and the capstone Web Site Design Project course.

A. Required Core Courses

All five courses listed below are required and must be taken in sequence. You must complete the first course in the sequence before taking the second and so on.

1st - CAWB 2101 Internet Applications
2nd - CAWB 2301 Introduction to HTML
3rd - CAWB 3301 Intermediate HTML
4th - CAWB 4301 Advanced HTML
5th - CAWB 2701 Introduction to JavaScript

B. Other Required Core Course. (Reminder: Prerequisite(s) must be completed first.)
   CAWB 3101 Design Techniques for Web Sites

C. Required Multimedia Elective

Choose any one of the following courses. (Reminder: Prerequisite(s) must be completed first.)

- CAGR 3321 Macromedia Director
- CAGR 3421 Multimedia Solutions
- CAWB 2611 Using Macromedia DreamWeaver to Create Web Sites*
- CAWB 2511 Motion Graphics Using Flash*
- CAWB 3511 Advanced Motion Graphics Using Flash*

* Note: CAWB 2611, CAWB 2511 and CAWB 3511 cannot be used to fulfill the Multimedia Elective if you are already taking one of these courses to fulfill the Web Course Elective.
D. Required Graphics Elective
Choose any one of the following courses. (Reminder: Prerequisite(s) must be completed first.)
- CAGR 2111 Photoshop for Windows, Level I
- CAGR 3111 Photoshop for Windows, Level II
- CAGR 2211 Illustrator for Windows, Level I
- CAGR 2121 Photoshop for Macintosh, Level I
- CAGR 3121 Photoshop for Macintosh, Level II
- CAGR 2221 Illustrator for Macintosh, Level I

E. Web Course Elective
Choose any one of the following courses. (Reminder: Prerequisite(s) must be completed first.)
- CAWB 2102 Doing Business on the Internet
- CAWB 5311 Hypertext Mark-up Language Version 4
- CAWB 2411 Web Site Design with FrontPage 2000
- CAWB 3701 JavaScript Language
- CAWB 2611 Using Macromedia DreamWeaver to Create Web Sites*
- CAWB 2511 Motion Graphics Using Flash*
- CAWB 3511 Advanced Motion Graphics Using Flash*

* Note: CAWB 2611, CAWB 2511 and CAWB 3511 cannot be used to fulfill the Web Course Elective if you are already taking one of these courses to fulfill the Multimedia Elective.

F. Required Capstone Course
All the required courses listed in A-E above must be successfully completed before you can enroll in this course.
- CAWB 9001 Web Site Design Project

CERTIFICATE IN PROGRAMMING
For this certificate, you must complete the required introductory courses in Option 1 or 2, the required courses in one of the two tracks (C++ or Java) and one elective Topics course. Please note that the Introductory Course requirements have changed for the Fall 2001 term. If you started on the programming certificate prior to Fall 2001, you may complete under the old or new requirements.

As of Spring 2001, the C Track of our Programming Certificate was no longer offered. Those who have started the C Track Certificate will still be issued a certificate upon completion of the requirements. Please note that certain C++ courses may require a prerequisite in C programming. Those who need to take C programming courses may take them at another institution to replace the required prerequisite(s) for this certificate.

A. Required Introductory Courses
(Choice option 1 or 2. If you are not sure whether you should choose option 1 or 2, please read the course overviews for a detailed description of these courses on our web site at www.colorado.edu/conted/computer.htm or contact us at 303-492-5148.)

Option 1: For those with no programming experience/background (all courses are required)
- CAPR 1001 Introduction to Programming I
  (formerly CACS 240 Introduction to Programming)
- CAPR 2101 Introduction to Programming II
  (formerly CACS 241 Introduction to Hands-on C++)
- CAPR 3101 Introduction to Programming III
  (formerly CACS 341 Intermediate Hands-on C++)
- CAPR 3201 Intermediate Application Programming
- CAPR 3202 Algorithm Design

Option 2: For those with some programming experience/background (all courses are required)
- CAPR 2201 Introduction to Application Programming
- CAPR 3201 Intermediate Application Programming
- CAPR 3202 Algorithm Design

B. Choose One of Two Tracks
1. C++ Track (all courses required)
   - CAPR 2102 Introduction to Object-Oriented Programming in C++
   - CAPR 4101 Intermediate/Advanced C++ Programming
   - CAPR 5101 C++ Gotchas
   - Two Design Topics Courses

2. Java Track (all courses required)
   - CAPR 2601 Introduction to Object-Oriented Programming Using Java
   - CAPR 3601 Java for Object-Oriented Experienced Programmers
   - CAPR 4601 Advanced Java Programming Language Topics
   - CAPR 4602 Advanced Java Library
   - One Java Topics Course
   - One Design Topics Course

C. Choose one elective Topics course not already taken for the track requirements

Topics Courses
Java Topics
- CAPR 4603 Enterprise Java Beans (EJB) Overview
- CAPR 5601 GUI Programming in Java
- CAPR 5602 Developing Web Applications in Java
- CAPR 5603 Java Servlets
- CAPR 5604 Network-Embedded Java Programming

Design Topics
- CAPR 5401 Object-Oriented Design Patterns
- CAPR 5402 Object-Oriented Analysis and Design

Visual Basic Topics
- CAPR 2301 Introduction to Hands-on Visual Basic Programming
- CAPR 3301 Intermediate Hands-on Visual Basic Programming

Database Design Topics
- CAAP 4501 Database Design Concepts
- CAAP 4502 Relational Database Concepts and SQL Programming
## COURSES BY START DATE

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course No./Section</th>
<th>Start Date</th>
<th>End Date</th>
<th>Time</th>
<th>Total Sessions</th>
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<td>Computer Literacy</td>
<td>CAAP 1001-300</td>
<td>09/04/2001</td>
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<td>Windows 95 Level I</td>
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<td>10/15/2001</td>
<td>10/18/2001</td>
<td>9 a.m.-2:30 p.m.</td>
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<td>CAAP 2221-300</td>
<td>09/11/2001</td>
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<tr>
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<td>Database Design Concepts</td>
<td>CAAP 4501-300</td>
<td>11/07/2001</td>
<td>11/14/2001</td>
<td>9 a.m.-4 p.m.</td>
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<td>10/01/2001</td>
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<td>09/24/2001</td>
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<td>Introduction to Networks</td>
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<td>09/11/2001</td>
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<td>Introduction to Networks</td>
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<td>10/31/2001</td>
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<td>Computer Systems Overview</td>
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<td>5</td>
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<tr>
<td>Enterprise Java Beans (EJB) Overview</td>
<td>CAPR 4603-300</td>
<td>10/27/2001</td>
<td>11/03/2001</td>
<td>9 a.m.-4 p.m.</td>
<td>2</td>
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<tr>
<td>GUI Programming in Java</td>
<td>CAPR 5601-300</td>
<td>09/10/2001</td>
<td>10/22/2001</td>
<td>6-9 p.m.</td>
<td>7</td>
</tr>
<tr>
<td>Developing Web Applications in Java</td>
<td>CAPR 5602-300</td>
<td>09/11/2001</td>
<td>10/23/2001</td>
<td>6-9 p.m.</td>
<td>7</td>
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<td>Java Servlets</td>
<td>CAPR 5603-300</td>
<td>10/20/2001</td>
<td>10/20/2001</td>
<td>9 a.m.-4 p.m.</td>
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<tr>
<td>Network Embedded Java Programming</td>
<td>CAPR 5604-300</td>
<td>12/01/2001</td>
<td>12/08/2001</td>
<td>9 a.m.-4 p.m.</td>
<td>2</td>
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<tr>
<td>Object-Oriented Design Patterns</td>
<td>CAPR 5401-300</td>
<td>11/03/2001</td>
<td>11/03/2001</td>
<td>9 a.m.-4 p.m.</td>
<td>1</td>
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<tr>
<td>Object-Oriented Analysis and Design</td>
<td>CAPR 5402-300</td>
<td>11/09/2001</td>
<td>11/10/2001</td>
<td>9 a.m.-5 p.m.</td>
<td>2</td>
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<td>Introduction to Perl for Programmers</td>
<td>CAPR 2701-300</td>
<td>10/18/2001</td>
<td>11/15/2001</td>
<td>6-9 p.m.</td>
<td>5</td>
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<tr>
<td>Extensible Markup Language (XML)</td>
<td>CAPR 3701-300</td>
<td>10/25/2001</td>
<td>11/15/2001</td>
<td>6-9 p.m.</td>
<td>4</td>
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<tr>
<td>Introduction to Hands-On Visual Basic Programming</td>
<td>CAPR 2301-300</td>
<td>09/10/2001</td>
<td>10/08/2001</td>
<td>6-9 p.m.</td>
<td>5</td>
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<tr>
<td>Intermediate Hands-On Visual Basic Programming</td>
<td>CAPR 3301-300</td>
<td>10/27/2001</td>
<td>11/10/2001</td>
<td>9 a.m.-4 p.m.</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Software Project Management</td>
<td>CAPR 5501-300</td>
<td>09/17/2001</td>
<td>10/08/2001</td>
<td>6-9 p.m.</td>
<td>4</td>
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</tbody>
</table>
Windows 98 Level I
CAAP 2121
Increase your efficiency using Windows with lots of useful information, clever shortcuts and "tips 'n tricks". Learn to work with objects on the Desktop, built-in programs and accessories within the "Start" menu, the "Settings" option, and Windows Explorer. Work with Word and Excel to identify similarities between programs and toolbars. Also, find files, tile multiple windows, change window views, create shortcuts on the desktop, add/remove items to the Start Menu, and use of the right mouse button for all the handy shortcuts available in Windows. **Prerequisite:** CAAP 1001 Computer Literacy or equivalent.

Lisa Kelly, B.A.

Section 300: Tuesday, October 9, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $209.

Word 97 (8.0) Level I
CAAP 2211
Learn to create, edit and print documents. Learn various techniques for selecting text in order to move, copy and delete text; and changing font, point size and attributes (bold, italics, etc.). Other topics include inserting special symbols, creating bulleted and numbered paragraphs, changing margins, setting tabs, using spell check and the help system. Explore the integrated features including extended filenames, enhanced auto correct and many other shortcuts and "tips 'n tricks." **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent.

Jeff Schatz, B.A.

Section 300: Monday and Thursday, October 15 and 18, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $241.

Word 2000 (9.0) Level I
CAAP 2221
This course is designed for those who are new to Microsoft Word or who have been using it for a while but would like to know ways to make the program work more efficiently for them. Students will have a clear understanding of the MS Word methods and concepts when finished with this course. The students will learn how to turn the automatic features of Word on or off. All automatic formatting will be explained in detail. Students will learn in-depth character, paragraph, and document formatting techniques, keyboard shortcuts, tabs, indents, borders and shading, and more. Students will know how to make shortcuts for inserting often-used text and graphics. Printing options, print preview, and page setups are discussed. **Prerequisite:** CAAP 2111 Windows 95 Level I or CAAP 2211 Windows 98 Level I or equivalent.

Ivy Kilbride

Section 300: Tuesdays, September 11 and 18, 9 a.m.-2:30 p.m. 2 sessions. University Computing Center 127. $241.

Excel 97 (8.0) Level I
CAAP 2211
Learn basic spreadsheet design and construction, file management, formulas, functions, worksheet editing, data formatting, and printing. Become comfortable navigating Excel on your own to avoid memorizing limited basic tasks. Explore time saving shortcuts, simple graphing, and quick ways to create a "professional" appearance. **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent.

Jeff Schatz, B.A.

Section 300: Monday, September 10, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $215.

Pat Melton, B.A.

Section 300: Tuesday, September 4, 6-8 p.m. Tuesdays, September 11-October 2, 6-9 p.m. There are one lecture, two Macintosh labs and two PC labs. The first three sessions, September 4-18, will be held in Humanities 1B35, the last two sessions, September 25-October 2, will be held in Humanities 1B45. 5 sessions. $200.
Excel 97 (8.0) Level II
CAAP 3311
Learn to protect cell data by locking just some of the cells or the entire worksheet. Learn how to make formulas "absolute", and understand what a circular reference is. Explore all the possibilities in working with multiple sheets: Selecting/deselecting for group mode, and formatting and/or creating formulas within a group of selected sheets. Learn about charting and creating/editing a separate chart sheet or an embedded chart. Work with the Date Format; understand and use templates; customize the toolbar and have fun with loads of shortcuts and "tips 'n tricks!"

Prerequisite: CAAP 2311 Excel 97 Level I or equivalent.

Lisa Kelly, B.A.

Section 300: Monday, September 17, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $215.

Excel 2000 (9.0) Level I
CAAP 2321
This course is designed for those who are new to Microsoft Excel or who have been using it for a while but would like to know ways to make the program work more efficiently for them. Students will have a clear understanding of how to use the MS Excel program when finished with this class. The students will learn how to create a new workbook – from the initial idea to a finished, well-formatted document. Emphasis is placed on formula creation and concepts, entry shortcuts, editing, and formatting. Printing options, print preview, and page setups are also discussed.

Prerequisite: CAAP 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I or equivalent.

Ivy Kilbride

Section 300: Thursday, September 6, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $215.

Excel 2000 (9.0) Level II
CAAP 3321
In this course, students learn more about Excel's security, automation and modification features. This class covers the tools and techniques needed to extend Excel capabilities beyond the simple single worksheet containing text, numbers and formulas. Study includes the automation of worksheet production through templates. Invaluable techniques such as linking formulas to data outside the current worksheet or workbook. Locking out edits and changes to certain portions of the worksheet. Copying and pasting and linking Excel data to other Windows programs using OLE. A brief look at Excel's database capabilities as well as charting is also covered in this course.

Prerequisite: CAAP 2321 Excel 2000 Level I or equivalent.

Chris Mattson, B.S.

Section 300: Thursday, September 20, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $215.

Access 97 (8.0) Level I
CAAP 2411
This course is designed for those who are new to Microsoft Access and databases in general or who have been attempting to use Access but need more information. Students will learn database terminology and how it relates to Access, instruction on database design concepts, and methods, and Access objects and their uses. Students will learn to store data, sort, select, and manipulate the data, display the data on the screen and in printed reports. Data storage, entry, and retrieval objectives are discussed throughout the course. Special emphasis is placed on proper data creation and storage (tables), and retrieval of that data (queries). The mechanics of forms and reports are also highlighted.

Prerequisite: CAAP 2111 Windows 95 Level I or equivalent.

Ivy Kilbride

Section 300: Thursdays, September 13 and 20, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. $261.

Access 2000 (9.0) Level I
CAAP 2421
This two-day course covers everything you need to know to create and maintain your data using an Access database. The class first examines the creation and custom design of the data Table object followed by the Query object which is used to extract and manipulate user defined specific sets of data from the tables. The student then learns how to create, design and customize Access Forms for efficient and convenient data display, entry and edits. Finally, the class examines the use of Reports for grouping and printing of data. When appropriate, the course covers other useful Access techniques such as importing/exporting of data, relational theory and finding specific information using the help system. Along the way the class also covers all of the shortcuts, tips/tricks, dos and don'ts. Whether you're new to databases or have expertise in another database application, this course will give you everything you need to know to hit the ground running with Access.

Prerequisite: CAAP 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I or equivalent.

Chris Mattson, B.S.

Section 300: Tuesdays, October 2 and 9, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. $261.
Access 2000 (9.0) Level II
CAAP 3421
This one-day course is loaded with useful techniques and information designed to advance the Access user into the intermediate realm. The student will work with more advanced query and form design with emphasis on the use of related data across multiple related data sources. Focus is placed on the use of the property sheet, instead of the Access wizards, to customize objects. **Prerequisite:** CAAP 2421 Access 2000 Level I or equivalent.

Chris Mattson, B.S.

Section 300: Monday, October 29, 9 a.m.-4 p.m. 1 session. University Management Systems 001. $215.

Database Design Concepts
CAAP 4501
This course will present the database novice with the concepts of the relational database model. Discussion begins with demonstrations of the limits and complications of the common flat file list model and then expands to resolve these issues by way of "Normalizing" the flat file through the employment of "Normal Forms". The student will also learn the concepts of database integrity, table indexing, different types of tables with and when to use them, and then finishing with examples of cleaning up "text" tables for import and breaking flat files into multiple relational tables. This course paves the way for more advanced subject matter such as data collection methods and SQL programming. **Prerequisites:** CAAP 2411 Access 97 Level I or equivalent and a good working knowledge of the Windows 95 interface. A basic understanding of Excel for Windows is recommended.

Chris Mattson, B.S.

Section 300: Wednesdays, November 7 and 14, 9 a.m.-4 p.m. 2 sessions. University Management Systems 001. $261.

Relational Database Concepts and SQL Programming
CAAP 4502
This course provides an introduction to relational databases and the Structured Query Language (SQL). These topics will be explored using a simulated college registration database. Students in the course will assume the role of data analysts asked to provide college administrators with management information. Considerable attention will be placed on the construction, testing, debugging, and simplification of SQL programs. The course also examines selected topics in the design and development of relational databases, as background for a better understanding of why SQL functions the way that it does. Important notes: 1) This course emphasizes database use rather than database administration; 2) The course utilizes Oracle SQL and SQL *Plus. **Prerequisite:** CAAP 2411 Access 97 Level I or previous experience with databases.

Douglas Smith, B.S.

Section 300: Mondays and Wednesdays, October 1-29, 6-8 p.m. 9 sessions. University Management Systems 001. $285.

AutoCAD Level I
CAAP 2511
This course will focus on the 2D drafting features of AutoCAD with an emphasis on setting up new drawings including units, limits, scaling, layers, basic drawing construction and editing techniques. You will also learn how to create basic symbol blocks, cross hatch, and introduction to plotting to hard copy. **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent. Some understanding of drafting concepts/techniques is helpful. **Required text:** AutoCAD 2000, No Experience Required, David Frey.

Michael George, B.Eng. B.Arch

Section 300: Mondays, September 24-October 29, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $390.

Networking
Introduction to Networks
CANT 1001
Networked computer systems are becoming more and more prevalent in today's business environment. Making informed choices depends on understanding the basic concepts, grasping the "lingo" and accurately evaluating various configurations. This course also presents an overview of current network systems available on both DOS-based and Macintosh-based systems from small to medium sized businesses. **Prerequisite:** CAAP 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I or equivalent.

Nate Ahrens, B.A.

Section 301: Tuesdays, September 11-October 2, 6-9 p.m.

Section 302: Wednesdays, October 10-31, 6-9 p.m.

All Sections: 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $260.

Computer Systems Overview
CANT 2101
This course offers students an extensive introduction of what they need to know to discuss and make informed decisions regarding computers. This course presents the student with an overview of many of the system hardware and software components that make up the modern desktop computer including CPU, memory, disks, file systems, displays, Bus I/O, printers, modems, networks and operating systems boot processes, applications and computer maintenance and backup/recovery. Students will acquire knowledge of relevant computer system terminology and are encouraged to participate in class discussions comparing and contrasting the relevance and differences of computer system hardware and software components. **Prerequisite:** CAAP 2111 Windows 95 Level I or working knowledge of the Macintosh or equivalent.

Chris Mattson, B.S.

Section 300: Tuesdays, September 11-October 2, 6-9 p.m. 4 sessions. University Computing Center 127. $248.
Computer Applications

Computer Architecture
CANW 3101
This course introduces the fundamentals of computer architecture, providing an overview of the structure and operation of digital computers. It will describe how individual components such as CPU's memory, hard drives, video cards, network interface cards, and other peripherals interact with each other on various platforms. The class will explore several underlying technologies that are common to most computers, and especially to PCs. It will take a generic approach to describing how these systems work rather than examining the details of specific implementations. **Prerequisite:** CANW 2101

Computer Systems Overview or equivalent.

dave bednar, m.s.

Section 301: Tuesdays, September 4-25, 6-9 p.m.
Section 302: Wednesdays, November 7-December 5 (skip November 21), 6-9 p.m.
All Sections: 4 sessions. University Computing Center 123. $248.

Computer Operating Systems
CANW 3102
This course deals with the major network client workstations. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the Windows, Macintosh, Linux and UNIX workstation operating systems. In the lab portion, students learn about installing and configuring the operating systems and how to maintain them in fully functional workstations. **Prerequisite:** CANW 2101 Computer Systems Overview or equivalent. **Required text:** *Crossing Platforms: A Macintosh/Windows Phrasebook*, Enser and Pogue.

Marc Lafavor, B.S.

Section 300: Mondays and Thursdays, October 8-18, 6-9 p.m. 4 sessions. Mondays in University Computing Center 123 and Thursdays in University Computing Center 127. $248.

Network Operating Systems
CANW 4101
This course deals with the UNIX and Windows NT server operating systems. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the UNIX and Windows NT Server Network Operating Systems (NOS) as well as the underlying network operating system support. In the lab portion, students learn about installing and configuring the network operating systems and how to use them as fully functional network servers. **Prerequisite:** CANW 3102 Computer Operating Systems or equivalent. **Required text:** *Using Networks*, Derfler.

Marc Lafavor, B.S.

Section 301: Tuesdays and Thursdays, November 6-15, 6-9 p.m. 4 sessions. Tuesdays in University Computing Center 123 and Thursdays in University Computing Center 127.
Section 302: Saturdays, December 8 and 15, 9 a.m.-4 p.m. 2 sessions. Morning lectures and afternoon labs. University Computing Center 127.
All Sections: $248.

Network Administration
CANW 5101
Lecture and lab. The lecture portion provides information about network management skills, including setting up user groups and access privileges, maintaining security, backup strategies, as well as sharing printers and other network resources. In lab, students learn troubleshooting techniques and how to solve and prevent network problems. **Prerequisite:** CANW 4101 Network Operating Systems or equivalent.

Shawn Smith, Ph.D., CNE

Section 300: Wednesdays, September 5-September 26, 6-9 p.m. 4 sessions. September 5 and 19 in University Computing Center 123 and September 12 and 26 in University Computing Center 127. $248.

Wide Area Networking Topics
CANW 5401
In this lecture-based course you will view the Internet as one large WAN. Learn the various packet-switched technologies that make it work, such as PPP, ATM, xDSL, as well as older circuit-switched technologies. Transmission methods will also be covered, such as fiber optics and microwaves. Gain an understanding of the advantages and disadvantages of each technology. Case studies of real-world WAN topologies and the equipment (routers and switches) used to implement them will be examined. **Prerequisite:** CANW 4101 Network Operating Systems or equivalent.

Paul Wedling, B.S.

Section 300: Mondays, November 26-December 10, 6-9 p.m. 3 sessions. University Computing Center 123. $220.

Introduction to Windows 2000 Administration
CANW 2211
A technical hands-on course focusing on concepts necessary for migrating from Windows NT 4.0 to Windows 2000. Installation and configuration of Windows 2000 Professional and Server in a small office environment. Topics include planning, installation, networking, file sharing, printer sharing, file systems and disks. Also covered will be installation and configuration of several Windows 2000 services. **Prerequisite:** CANW 4101 Network Operating Systems or equivalent. **Required text:** *Windows 2000: The Complete Reference*, Osborne/McGraw-Hill, Ivens and Gardiner.

Bob Schmidt, M.A.

Section 300: Mondays and Thursdays, November 26-December 6, 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1840 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $440.
Hands-On UNIX
CANW 1301
Students will be introduced to the basics of the UNIX operating system using hands-on laboratory style exploration. The course will cover UNIX fundamentals such as the file and directory structure, essential commands, the VI text editor, and command shells. Advanced topics will touch on customization of the user's environment, shell variables and basic programming concepts. The student will be introduced to the many UNIX-like operating systems offered by a variety of vendors, highlighting the major similarities and differences. Prerequisite: CAAP 1001 Computer Literacy or equivalent.

James Lupo, Ph.D.

Section 300: Thursdays, October 4-November 1, 6-9 p.m. 5 sessions. University Management Systems 001. $380.

Introduction to UNIX
CANW 2301
This is a course for anyone who needs to use UNIX, program in its environment, manage users, or obtain sufficient knowledge to evaluate it. In this lecture-based course, fundamentals are covered, including few advanced topics history, the importance of different versions, files, directories, permissions, essential commands, editors, the Bourne and C shells, I/O redirection, pipes, command substitution, environment variables, powerful features of the C shell and a look inside the UNIX kernel. Prerequisite: CAAP 1001 Computer Literacy or equivalent.

Craig McBride, M.B.A.

Section 300: Tuesdays and Thursdays, October 9-30, 6-9 p.m. 7 sessions. University Computing Center 123. $410.

Intermediate UNIX
CANW 3301
Create your own tools or do system administration. Advanced use of commands are covered, including creating and executing shell programs, start-up files, variables, parameters, simple and multiple case branching, loops, signal handling, testing file attributes, plus some ingenious little-known features. Prerequisite: CANW 2301 Introduction to UNIX or equivalent.

Craig McBride, M.B.A.

Section 300: Tuesdays and Thursdays, November 27-December 11, 6-9 p.m. 5 sessions. University Computing Center 123. $480.

UNIX System Administration
CANW 5301
This course examines many aspects of system administration on UNIX-like operating systems. Vendor-specific details are avoided, to a large extent, making the presented concepts applicable to all flavors of UNIX. Topics include managing users, disk administration and setup strategies, networking, system operation and monitoring, backup, security, and other "tricks of the trade." Prerequisites: CANW 3301 Intermediate UNIX or equivalent, giving the student an intermediate user's level knowledge of file ownerships, directories, permissions, basic commands and editors.

James Lupo, Ph.D.

Section 300: Tuesdays, November 6-December 11 (skip November 20), 6-9 p.m. 5 sessions. University Computing Center 127. $480.

WEB
Internet Fundamentals
CAWB 1001
Acquire a proficient understanding of the Internet! Today, computers are a tremendous resource for accessing and providing information, and communicating with others around the world via the Internet. In this course you will learn some Internet history; how the Internet works; how to find, view, copy and save information; and how to communicate with other Internet users. Prerequisite: CAAP 1001 Computer Literacy or equivalent.

Lorraine Revelle, B.A.

Section 301: Wednesdays, September 5 and 12, 6-9 p.m. 2 sessions. Humanities 1B45.

Jeff Schatz, B.A.

Section 302: Thursday, September 6, 9 a.m.-4 p.m. 1 session. University Management Systems 001.

All Sections: $209.
Internet Applications
CAWB 2101

This course launches you into the world of web publishing, covering File Transfer Protocol (FTP) and Telnet, and more in-depth discussion of web browsers and how they relate to web design. Learn how to set browser preferences, and how to download and install browser plug-ins for viewing multimedia files and PDF documents. Plus, you will sign up for free web space and build your own web site using free software.

Prerequisite: CAWB 1001 Internet Fundamentals or equivalent.

Ginny Figlar, M.A.

Section 301: Wednesdays, September 5-19, 6-9 p.m. 3 sessions. University Management Systems 001.

Section 302: Mondays, September 10-24, 6-9 p.m. 3 sessions. University Management Systems 001.

Rachelle Johnson

Section 303: Thursdays, September 13-27, 6-9 p.m. 3 sessions. Humanities 1B45.

Section 304: Saturdays, September 15 and 22, 9 a.m.-2:30 p.m. 2 sessions. University Management Systems 001.

Chris Mattson, B.S.

Section 305: Wednesdays, September 19-October 3, 6-9 p.m. 3 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: $228.

Doing Business on the Internet
CAWB 2102

"E-commerce": Learn the fundamentals for marketing and operating your business on-line. Topics include conceptualizing, planning, organizing and implementing an Internet store. Case studies will be reviewed that demonstrate both successful and unsuccessful business models and technical approaches as applied to marketing your product or service on the Internet.

Prerequisite: CAWB 1001 Internet Fundamentals or equivalent.

Paul Welding, B.S.

Section 300: Wednesdays, September 19-October 3, 6-9 p.m. 3 sessions. Humanities 1B45. $228.

Design Techniques for Web Sites
CAWB 3101

Create sites that are easy to navigate and appealing to the eye! In this course, you will learn about efficient site navigation, the fundamentals of design and color theories, effective uses of fonts, and methods to optimize image compression. Prerequisite: CAWB 2101 Internet Applications or equivalent.

Beth Sigren, B.S.

Section 301: Wednesdays, September 12 and 19, 9 a.m.-12 p.m. University Computing Center 127.

Rachelle Johnson

Section 302: Thursdays, October 4 and 11, 6-9 p.m. Humanities 1B45.

Beth Sigren, B.S.

Section 303: Wednesdays, November 7 and 14, 9 a.m.-12 p.m. University Computing Center 127.

Rachelle Johnson

Section 304: Thursdays, December 6 and 13, 6-9 p.m. University Computing Center 127.

All Sections: 2 sessions. $215.

Introduction to Hypertext Mark-up Language (HTML):
Formatting, Links, Lists and Tables
CAWB 2301

Learn how to create web sites from the ground up! Topics include formatting tags, lists, links, images and tables. We will also cover meta tags, coding techniques and offer web-site design tips to make functional and exciting web pages. Prerequisites: CAAP 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I and CAWB 2101 Internet Applications or equivalent. Proficiency with PCs and the Windows operating system is necessary. An HTML reference book is recommended.

Susan Walinski, B.A.

Section 301: Mondays, September 10-October 1, 6-9 p.m. Humanities 1B45.

Rachelle Johnson

Section 302: Tuesdays, October 9-30, 6-9 p.m. University Computing Center 127.

Leonard Barrett, B.S.

Section 303: Wednesdays, October 10-31, 6-9 p.m. University Computing Center 127.

Karis Vail Schmidt, B.A.

Section 304: Thursdays, October 11-November 1, 9 a.m.-12 p.m. University Computing Center 127.

Ginny Figlar, M.A.

Section 305: Mondays, October 15-November 5, 6-9 p.m. University Computing Center 127.

All Sections: 4 sessions. $255.

After working in administration for 15 years, Andrea Pappas recently switched over to IT. Since she doesn't have an educational background in IT, Andrea is getting a certificate in Network Administration to back up the experience she already has. "If you're not going back to school for a degree, the certificate program is a good, hands-on alternative." Andrea also enjoys getting to know the people in her classes. "There's a lot of comradery among the students. We're all going down the same educational track, but for different reasons. I like hearing their stories."
Intermediate Hypertext Mark-up Language (HTML): Meta Tags, Referencing and Frames
CAWB 3301

This course builds on the skills learned in CAWB 2301 Introduction to HTML. Learn how to code a definition list; common meta tags; absolute, relative, and base references; and framed sites. Prerequisite: CAWB 2301 Introduction to Hypertext Mark-up Language (HTML) or equivalent. You must be proficient with PCs and the Windows operating system and able to implement all the skills covered in the Introduction HTML course with minimal assistance. An HTML reference book is recommended.

Beth Sigren, B.S.

Section 301: Tuesdays, September 4-18, 6-9 p.m. Humanities 1B45.

Rachelle Johnson

Section 302: Wednesdays, November 7-28 (skip November 21), 6-9 p.m. University Operating Systems 001.

Karis Vail Schmidt, B.A.

Section 303: Mondays, November 12-December 3 (skip November 19), 6-9 p.m. Humanities 1B45.

Section 304: Tuesdays, November 13-December 4 (skip November 20), 9 a.m.-12 p.m. University Computing Center 127.

Rachelle Johnson

Section 305: Tuesdays, November 27-December 11, 6-9 p.m. University Management Systems 001.

All Sections: 3 sessions. $228.

Advanced Hypertext Mark-up Language (HTML)
CAWB 4301

Putting the pieces together! In this course, students will build on skills learned in the Introduction and Intermediate HTML courses. Learn to code forms to make your web site interactive. Learn how, with Cascading Style Sheets, to have a more sophisticated and uniform layout. We will also review the "big picture" of web site implementation and search engines. Prerequisite: CAWB 3301 Intermediate Hypertext Mark-up Language (HTML) or equivalent. You must be proficient with PCs and the Windows operating system and able to implement all skills covered in the Introduction and Intermediate HTML courses to successfully complete this course. An HTML reference book is recommended.

Joyce E. Evans, B.A.

Section 301: Thursdays, September 6-27, 6-9 p.m. University Computing Center 127.

Susan Walanski, B.A.

Section 302: Saturdays, September 8-29, 9 a.m.-12 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 303: Saturdays, September 8-29, 2-5 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Karis Vail Schmidt, B.A.

Section 304: Mondays, September 10-October 1, 9 a.m.-12 p.m. University Computing Center 127.

Beth Sigren, B.S.

Section 305: Tuesdays, October 9-30, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 4 sessions. $255.

Hypertext Mark-up Language (HTML) Version 4
CAWB 5311

Learn HTML 4, the newest version of HTML! New and revised HTML tags, attributes, and values as specified by the W3C will be covered. This course builds on the skills learned in all levels of the HTML courses. Prerequisite: CAWB 4301 Advanced Hypertext Mark-up Language (HTML) or equivalent. Students must be proficient with PCs and the Windows operating system and able to implement the skills covered in all levels of the HTML courses with minimal assistance.

Beth Sigren, B.S.

Section 300: Wednesdays, October 17 and 24, 9 a.m.-12 p.m. 2 sessions. University Computing Center 127. $209.

Introduction to JavaScript
CAWB 2701

Learn the fundamentals of programming using JavaScript. Topics include concepts such as variables, functions, and objects covered in a hands-on step-by-step fashion. Class will focus on the language in terms of extending the functionality of a web page. Class will prepare you for the CAWB 3701 JavaScript Language course and assumes no previous high-level programming experience. Prerequisite: CAWB 4301 Advanced HTML or equivalent.

Susan Walanski, B.A.

Section 301: Saturdays, October 6-27, 9 a.m.-12 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 302: Saturdays, October 6-27, 2-5 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 303: Mondays, October 8-29, 6-9 p.m. Humanities 1B45.

Section 304: Wednesdays, October 10-November 7 (skip October 31), 6-9 p.m. Humanities 1B45.

All Sections: 4 sessions. $255.
JavaScript Language
CAWB 3701
This course will cover programming techniques such as controlling program flow, looping structures, defining and manipulating functions and the various uses of JavaScript's object properties and methods. You will learn to add to the web page visitor's experience by verifying different types of form field data, writing user defined functions for pre-loading images, using browser detection to improve and optimize the look of your pages, and learn how to read, write and delete cookies to customize a page for a return user. This course is not intended to teach general programming concepts; therefore, students should be familiar with general programming concepts such as variables, statements, parameter passing and the idea of modularized code (i.e. functions/subroutines/ methods).
Prerequisite: CAWB 2701 Introduction to JavaScript or CAPR 1001 Introduction to Programming I or one year of previous programming experience. Recommended texts: JavaScript, The Definitive Guide by David Flanagan or JavaScript Bible by Danny Goodman, Brendan Eich.
Joyce E. Evans, B.A.

Web Site Design with FrontPage 2000
CAWB 2411
Learn to develop a web presence with Microsoft's popular Web Authoring and Management tool. Over the course of the class students will create a working web site complete with formatted text, images, links and an interactive form. We will explore the many wizards that FrontPage offers as well as cover in depth the powerful management tools available for easily maintaining and managing your site. Prerequisites: CAAP 2111 Windows 95/CAAP 2121 Windows 98 and CAWB 1001 Internet Fundamentals or equivalent.
Karis Vale Schmidt, B.A.
Section 301: Mondays, October 22-November 12, 9 a.m.-12 p.m.
Section 302: Wednesdays, November 14-December 12 (skip November 21), 6-9 p.m.
All Sections: 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $285.

Advanced Motion Graphics Using Flash 5
CAWB 3511
Take your interactive "flash" movies to the next level for web applications. Techniques you will learn include enhancing animation, adding complex interactivity using multiple movies, and learning the use of Action Scripting. Homework projects will be assigned and due at the beginning of each class meeting. Prerequisite: CAWB 2511 Motion Graphics Using Flash 5 or equivalent. Required text: Flash 5: Creative Web Animation, Derek Franklin and Brooks Patton.
Mary McGiver, B.A.
Section 301: Tuesdays, September 4-October 2, 9 a.m.-12 p.m.
William Busch
Section 302: Tuesdays, November 6-December 11 (skip November 20), 6-9 p.m.
All Sections: 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $305.

Motion Graphics Using Flash 5
CAWB 2511
Learn how to create dynamic, interactive "flash" movies for web applications. Techniques that will be covered include drawing objects, creating symbols, creating motion, tweening and simple interactivity. Homework projects will be assigned and due at the beginning of class. Prerequisite: CAGR 3421 Multimedia Solutions or equivalent. Required text: Flash 5: Creative Web Animation, Derek Franklin and Brooks Patton.
Mary McGiver, B.A.
Section 301: Mondays, October 8-29, 9 a.m.-12 p.m.
Section 302: Mondays, October 8-29, 1-4 p.m.
William Busch
Section 303: Mondays, November 12-December 10 (skip November 19), 6-9 p.m.

Web based academic credit courses are available through Independent Learning, pages 20-25.
Using Macromedia DreamWeaver 4 to Create Web Sites  
CAWB 2611
If you haven't seen DreamWeaver in action, this course is a must. This professional level HTML editor is a sophisticated tool for creating web sites. Its powerful site management tools will be covered as well as discussion of layout techniques using tables and layers. Creating rollovers and much more will also be covered. **Prerequisite: CAWB 3301 Intermediate HTML or equivalent.**


**William Busch**
Section 301: Thursdays, October 4-25, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

**Jeff Braunstein, M.S.**
Section 302: Tuesdays, October 9-30, 6-9 p.m. Humanities 1B45.
Section 303: Wednesdays, November 7-December 5 (skip November 21), 6-9 p.m. University Computing Center 127.

**Tim Meehan**
Section 304: Thursdays, November 15-December 13 (skip November 22), 9 a.m.-12 p.m. University Computing Center 127.

All Sections: 4 sessions. $285.

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Web Site Design Project  
CAWB 9001
Required capstone course for the Certificate in Web Site Design. Students will learn the design process, which begins with interviewing prospective clients and ends with site maintenance. Students will create and update an assigned web site to demonstrate their complete understanding of site design as well as work through the planning stages of a large site. Homework is regularly assigned and completed outside of class. Both attendance and completion of homework as assigned are mandatory for successful completion of this course.

**Prerequisite:** Students must have satisfactorily completed all the required courses for the Web Site Design Certificate. CAWB 5311 Hypertext Mark-up Language Version 4 is recommended.

**Beth Sigren, B.S.**
Section 301: Saturdays, September 8-October 6, 9 a.m.-12 p.m.
Section 302: Saturdays, September 8-October 6, 2-5 p.m.
Section 303: Tuesdays, November 6-December 11 (skip November 20), 6-9 p.m.
All Sections: 5 sessions. Humanities 1B45. $295.

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**GRAPHICS**

Windows Computer Art  
CAGR 1011
This course is an overview of the various Windows-based graphics applications. Drawing programs such as Windows Paint and an overview of the popular illustration applications such as Adobe Illustrator and CorelDRAW will be covered! This course is designed for the person that has no previous graphics knowledge or skill. **Prerequisite: CAAP 2111 Windows 95 Level I or equivalent.**

**Jerry Reynolds, M.S.E.E.**
Section 300: Wednesdays, September 5 and 12, 6-9 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $184.

Macintosh Computer Art  
CAGR 1021
Spray cans, paint brushes and buckets of paint appear and disappear. And no mess to clean up when you're done! Discover electronic graphic design with object-oriented and bit-mapped design capabilities. With training in laser printing plus instruction in aesthetics of electronic imaging, you'll be ready to make your own camera-ready images. **Prerequisite: Must have a working knowledge of the Macintosh system.**

**Barry Ratiff, M.F.A.**
Section 300: Thursdays, September 6 and 13, 6-9 p.m. 2 sessions. Humanities 1B35. $184.

Digital photography course available through Personal Enrichment, page 34.

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Andrea Menken works as an account management assistant for a local computer consulting company. Her goal is to become a computer consultant, so she's taking classes through Continuing Education at CU to get her certificate in Network Administration. Andrea appreciates the fact that certificate programs are constantly evaluated and improved to keep them in line with the fast-paced computer industry. "The classes offered are relevant to real-world jobs."
Photoshop for Windows 98 (6.0) Level I
CAGR 2111
This course provides the student with an introduction to Photoshop, which is the premier photo editing application. Learn basic skills in scanning techniques and how to best capture your photos. The basic skills are photo editing and the tools used in Photoshop will be covered. Special attention will be given to web site requirements and how to move your photos from a photographic product to the Web.
Prerequisite: CAGR 1011 Windows Computer Art or equivalent.
Jerry Reynolds, M.S.E.E.
Section 301: Mondays, September 17 and 24, 9 a.m.-4 p.m.
Section 302: Mondays and Tuesdays, September 11 and October 6, 9 a.m.-4 p.m.
Leonard Barrett, B.S.
Section 303: Thursdays, October 18 and 25, 9 a.m.-4 p.m.
All Sections: University Management Systems 001. 2 sessions. $261.

Photoshop for Macintosh (6.0) Level I
CAGR 2121
Learn to use “standard photographic manipulation” of electronic images and how to create special effects using filters, paint tools, masking and image overlay. In addition, investigate output options such as color proofs and separations. Prerequisite: CAGR 1021 Macintosh Computer Art or equivalent.
Tim Meehan
Section 301: Mondays and Thursdays, September 17-27, 6-9 p.m.
Section 302: Tuesdays, October 2-23, 6-9 p.m.
All Sections: 4 sessions. Humanities 1B35. $261.

Photoshop for Macintosh (6.0) Level II
CAGR 3121
Expand your knowledge of this application by gaining a better understanding of its use from a production point of view. Learn prepress techniques and quality control that can help avoid costly mistakes and time consuming duplication. Prerequisite: CAGR 2121 Photoshop for Macintosh Level I or equivalent. Recommended text: Adobe Photoshop 6.0 Studio Techniques, Adobe Press.
Tim Meehan
Section 300: Thursdays, October 4-25, 6-9 p.m. 4 sessions. Humanities 1B35. $261.

Illustrator for Windows 98 (9.0) Level I
CAGR 2211
Create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Work can be printed as proofs or separations, or uploaded for web applications. Learn how to take photos from Adobe Photoshop and integrate them into illustrations using Adobe Illustrator.
Prerequisite: CAGR 1011 Windows Computer Art or equivalent.
Jerry Reynolds, M.S.E.E.
Section 300: Wednesdays, October 3 and 10, 9 a.m.-4 p.m. 2 sessions. University Management Systems 001. $261.

Illustrator for Macintosh (9.0) Level I
CAGR 2221
This course offers students an extensive introduction to Illustrator. The student will learn to create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Work can be printed as proofs or separations on paper or film, exported as EPS documents to page layout programs or taken directly into Adobe Photoshop. Class includes hands-on practice exercises. Prerequisite: CAGR 1021 Macintosh Computer Art or equivalent.
Rick Hoyt, B.S.
Section 300: Thursdays, September 21 and 28, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. $261.

Macromedia Director (6) Level I
CAGR 3321
Learn the production of interactive multimedia presentations, including animation, still graphics, voice and sound, text and video. A host of other graphics and sound software will be used. Emphasis will be on high quality presentations and finished productions that will run on both Macintosh and PC platforms. Prerequisite: CAGR 1021 Macintosh Computer Art, CAGR 1011 Windows Computer Art, or equivalent. You must have some proficiency in using a Macintosh as this course will be taught in a Macintosh lab. However, the applications are consistent on both the PC and Macintosh platforms.
William Busch
Section 300: Thursdays, November 8-December 6 (skip November 22) 6-9 p.m. 4 sessions. Humanities 1B35. $260.
Multimedia Solutions
CAGR 3421
This class introduces the types of equipment and technical considerations used in multimedia productions for CD-ROM and web delivery. The class will explore and be motivated by viewing world-class productions. There will be hands-on experience with graphic animation authoring software. Prerequisite: CAGR 1021
Macintosh Computer Art, CAGR 1011
Windows Computer Art or equivalent. You must have some proficiency in using a Macintosh as this course will be taught in a Macintosh lab. However, the applications are consistent on both the PC and Macintosh platforms. Required text: Multimedia: Making It Work, Tay Vaughan.
William Bauch

Section 301: Wednesdays, September 5-26, 6-9 p.m.
Section 302: Mondays, October 15-November 5, 6-9 p.m.
All Sections: 4 sessions. Humanities 1B35. $248.

Programming
Introduction to Programming I
CAPR 1001
This is an excellent first course for students with minimal or no programming background who want to learn to program. Using an object-oriented approach, students will learn the logic patterns needed for structured programming in any language. Students will work with conditionals (if statements), loops, and modularized code. They will learn to write concise, top-down, elegant code using these basic structures.
Cherry Sweeney, M.S.
Section 301: Wednesdays, September 12 and 19, Monday, September 17, and Thursday, September 20, 9 a.m.-4 p.m. 4 sessions. University Computing Center 123.
Section 302: Thursdays, September 13 and October 4, 6-9 p.m., Saturdays, September 15 and October 6, 9 a.m.-4 p.m., Tuesdays, September 18 and October 9, 6-9 p.m. (skip week of September 24). 6 sessions. Hellem's 263.
All Sections: $440.

Introduction to Programming II
CAPR 2101
This course uses C++ to deepen the skills learned in CAPR 1001 Introduction to Programming I. Students learn the basics of the C++ language, and then use that knowledge to expand and strengthen their ability to work with conditionals, loops, nested conditionals and loops, and functions. Students will be provided with sample C++ programs, and solve many programming problems on their own. Prerequisite: CAPR 1001 Introduction to Programming I or equivalent. Required text: C++ How to Program, Deitel & Deitel.
Cherry Sweeney, M.S.
Section 301: Wednesdays, October 3 and 10, Monday, October 8, Thursday, October 11, 9 a.m.-4 p.m. 4 sessions.
Section 302: Saturdays, November 3 and 10, 9 a.m.-4 p.m., Monday, November 5, 6-9 p.m., Tuesday, November 6, 9 a.m.-4 p.m., Thursday, November 8, 6-9 p.m. 5 sessions.
All Sections: Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $480.

Rich Lutes is working on his certificate in Network Administration from Continuing Education at CU. He hopes the certificate will open the door for career advancement. Rich recently finished a class in Wide Area Networks. He thinks the instructor was effective because he covered a lot of real-world scenarios and helped the students design actual networks in class. "I've enjoyed the classes I've taken at CU. It's convenient and close, and I've had a good experience with the classes so far."
Introduction to Object-Oriented Programming in C++
CAPR 2102
C++ is an extension of the C language that supports object-oriented (O-O) programming. This course will focus on the essential concepts underlying O-O programming (data abstraction, encapsulation, polymorphism) and will show how these are supported in C++ (classes and objects, public and private data and function members, inheritance, virtual functions). The course will also cover features of C++ that are not directly related to O-O programming (constants, references, initialization, function and operator overloading, default arguments, constructors, destructors, friends and inline functions). Prerequisite: CAPR 2101
Introduction to Programming II or proficiency in C programming is required. Programmers should be comfortable with structures, pointers, arrays, dynamic memory allocations, string handling, and the C preprocessor. Familiarity with object-oriented programming is not a prerequisite.
Kyle Klicker, M.S.
Section 300: Monday-Thursday, October 8-11, 6-9 p.m. and Saturday, October 13, 9 a.m.-4 p.m., 5 sessions. Humanities 145. $440.

Algorithm Design
CAPR 3202
This course focuses on the application of the C subset of C++ and Java in the design of practical solutions to real-world problems. Topics include sorting and searching, internal data representation, bit manipulation, arrays and pointers, random number generation and an introduction to computer graphics, all within the context of specific program examples. Although rules of C language syntax are discussed and reinforced, primary emphasis is placed on developing the student’s ability to analyze a problem inductively before approaching the computer. Prerequisite: CAPR 3101 Introduction to Programming III or CAPR 2201 Introduction to Application Programming or equivalent.
Students should also have access to a computer with a text editor, C/C++ compiler and linker or Java interpreter, plus knowledge of at least high-school level algebra.
David Corbin, M.S.
Section 300: Wednesdays, September 5-October 24, 6-9 p.m. 8 sessions. Continuing Education Center, Room 140 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). $495.

Intermediate Application Programming
CAPR 3201
Using more advanced programming concepts, students learn to analyze problems encountered and solutions to building larger, more real-world type programs, including criteria for selecting data structures to fit their applications. Object-oriented design is emphasized. Topics include pointers, dynamic data structures (linked lists, queues, stacks, binary trees), recursion, and A/I. Course combines a self-paced laboratory format of hands-on C++ programming with an in-lab lecture. Prerequisite: CAPR 2201
Introduction to Application Programming or equivalent. Recommended text: Problem Solving With C++, Savitch.
Steve Kamiński, M.S.E.
Section 300: Tuesdays, October 2-November 6, 6-9 p.m. 6 sessions. University Management Systems 001. $415.

Introduction to Application Programming
CAPR 2201
A more intensive introduction to programming course covering the techniques used in designing common algorithms to solve practical problems. Topics include flow of control, functions with parameter passing, data structures, abstract data types, objects, classes, arrays and file I/O. The course combines a lecture and self-paced laboratory format with hands-on programming using C++. No programming experience is required but recommended. Prerequisite: CAAP 2111 Windows 95 Level I or equivalent. Recommended text: Problem Solving With C++, 3rd Edition, Savitch.
Tom Harrold, Ed.D.
Section 301: Tuesdays and Thursdays, September 4-27, 6-9 p.m.
Steve Kamiński, M.S.E.
Section 302: Mondays and Thursdays, November 5-December 6 (skip November 19 and 22), 6-9 p.m.
All Sections: 8 sessions. University Management Systems 001. $440.

Introduction to Programming III
CAPR 3101
This course will cover pointers, arrays, strings, and classes. It is hands-on and partially self-paced. Students should be able to write a C++ program with functions before taking this class. Prerequisite: CAPR 2101
Introduction to Programming II or equivalent. Required text: C++ How to Program, Deitel & Deitel.
Susan Ramirez, B.S.
Section 300: Saturdays, October 13-November 3 (skip October 27), 9 a.m.-4 p.m. 3 sessions. University Management Systems 001. $440.
Intermediate/Advanced C++ Programming
CAPR 4101
This course continues the treatment of C++ and object-oriented programming. It covers features that are needed in production programming: static members, abstract base classes, protected access and arrays of objects. Another aspect of production C++ programming is the process by which programs are built and organized. The course will cover the topics of header files, type-safe linkage, linking with legacy C code, file organization, name spaces, naming schemes and coding standards. The course will cover inheritance, multiple inheritance and will address the subtle question of what situations really need inheritance and what can be better served by object containment. The concept of generic programming (iterators, collections and algorithms) using Templates (generic types) and an introduction to the Standard Template Library (STL) will be covered. **Prerequisite**: CAPR 2102

Introduction to Object-Oriented Programming in C++ or equivalent.


Kyle Klicher, M.S.

Section 300: Monday-Thursday, November 5-8, 6-9 p.m. and Saturday, November 10, 9 a.m.-4 p.m. 5 sessions. Clare Small Arts and Sciences 208. $495.

C++ Gotchas
CAPR 5101
Production C++ programming is complicated by numerous features of the language that behave in unexpected ways - "the Gotchas". Gotchas appear in all parts of the language. They affect the correctness, efficiency and portability of C++ software and may cost programmers additional development time to track down obscure bugs. A modest investment in understanding the Gotchas will repay itself many times over. This one-day lecture class presents a collection of over 50 Gotchas (and techniques for avoiding them) from different parts of the language, including constructors and destructors, function and operator overloading, scope, access control, arrays, const, references, inheritance and virtual functions, type-safe linkage, operators new and delete, initialization, multiple inheritance, virtual base classes and templates. **Prerequisite**: CAPR 4101


Kyle Klicher, M.S.

Section 300: Monday, November 12, 9 a.m.-4 p.m. 1 session. University Computing Center 123. $200.

Introduction to Object-Oriented Programming Using Java
CAPR 2601
This course introduces object-oriented programming to programmers familiar with procedural programming but not object-oriented concepts. Focus is on the essential concepts underlying O-O programming (data abstraction, inheritance and polymorphism) and how these are supported in Java (classes and objects, methods, dynamic method binding). We study the java.util package's data structures and collection classes. This course is preparation for CAPR 3601 Java for Object-Oriented Experienced Programmers which covers production programming skills, sufficient for writing effective software in Java. **Prerequisite**: CANW 3101 Computer Architecture and CAPR 3202 Algorithm Design or intermediate level experience with any procedural programming language. Basic programming concepts will not be covered. **Recommended text**: *Just Java*, Peter van der Linden.

Carol J. Meier, M.S.

Section 300: Tuesdays, September 4-October 16, 6-9 p.m. 7 sessions. Humanities 135. $490.

Java for Object-Oriented Experienced Programmers
CAPR 3601
This in-depth look at the Java programming language begins with an overview of the Java language, then rapidly covers the basics and progresses to inheritance, packages and interfaces and exceptions. Details of the type system, compilation model and the dynamic character of the execution model are emphasized. Students will acquire production Java programming skills. Use of standard Java library packages is illustrated throughout the course. **Prerequisite**: Experience with object-oriented programming, including inheritance and polymorphism is required. Those with no object-oriented programming experience should start with CAPR 2601 Introduction to Object-Oriented Programming Using Java. **Recommended text**: *The Java Programming Language*, Arnold & Gosling.

Richard Wolniewicz, Ph.D.

Section 300: Mondays, October 22-December 10, 6-9 p.m. 8 sessions. Humanities 1B80. $495.
Advanced Java Programming Language Topics
CAPR 4601
This course examines Java language features in depth. It presents the basic, coarse granularity, thread lifecycle model with specific emphasis on portability: class thread and related material. This is followed by the fine-grain thread synchronization model for concurrent programming: the synchronized keyword. An inner class is nested within another class; this nesting creates a tight coupling which reduces the usual housekeeping needed for a "helper" class. Reflection lets Java code "observe itself", discovering and manipulating its classes, fields, methods and constructors entirely at run-time. The mechanism enables many powerful dynamic programming techniques. We'll also look at how Java supports serialization for object persistence and object distribution. Prerequisites: CAPR 3601 Java for Object-Oriented Programmers or equivalent.

David Rodenbaugh
Section 300: Mondays, September 10–October 8, 6–9 p.m. 5 sessions. Humanities 125. $440.

Advanced Java Library Topics
CAPR 4602
This course examines some Java libraries in more depth. The complexity of the java.io package is tamed by understanding its symmetry and use of the (GOF) Decorator design pattern. The java.net section covers both client and server stream and datagram communication using Internet protocols. Other topics will include some of the following: Remote Method Invocation, CORBA, the java.sql package for relational data base access based on ODBC, Java native interfaces to allow Java to front-end code in existing C-linkable languages, and JNI. Prerequisites: CAPR 3601 Java for Object-Oriented Programmers or equivalent.

George Watson
Section 300: Mondays, October 29–November 26, 6–9 p.m. 5 sessions. Humanities 335. $440.

Enterprise Java Beans (EJB) Overview
CAPR 4603
Beans, beans, the magical fruit... This lecture course will introduce you to the world of Enterprise Java Beans (EJB), covering topics such as what is EJB and how does it fit into the J2EE (Java 2 Enterprise Edition) world, overviews of supporting technologies such as JNDI (Java Naming & Directory Interface), JDBC (Java Database Connectivity), and RMI (Remote Method Invocation), entity versus session beans, security, transaction handling, best practices, portability and performance considerations. We will also look at the state of the current specification as well as how the various vendors are supporting this spec. At the end of this course, you should be able to decide whether EJB will meet your upcoming needs for remote data projects or web based applications. Prerequisite: CAPR 3601 Java for Object-Oriented Experienced Programmers or equivalent. CAPR 4601 Advanced Java Programming Language Topics and CAPR 4602 Advanced Java Library Topics are highly recommended, but not required. Recommended text: Enterprise Java Beans, 2nd Edition, Richard Monson-Haefel (O'Reilly).

David Rodenbaugh
Section 300: Saturdays, October 27 and November 3, 9 a.m.–4 p.m. 2 sessions. Humanities 145. $395.

GUI Programming in Java
CAPR 5601
This course covers GUI programming for stand-alone applications and applets on web pages, using Swing and the Java Foundation Classes. Fundamental topics include: the AWT, events, containers and layout management. Swing topics include: model-view-controller, standard dialogs, menus, toolbars, splitter panes, tabbed panes, simple and advanced text components, trees and tables. This is an intermediate level Java course that requires a solid working knowledge of interfaces. Prerequisite: CAPR 3601 Java for Object-Oriented Experienced Programmers or equivalent.

Geoff Thompson, M.S.
Section 300: Mondays, September 10–October 22, 6–9 p.m. 7 sessions. Humanities 180. $495.

Developing Web Applications in Java
CAPR 5602
This course covers Servlets, JavaServer Pages, Java Beans and how they work together to create web applications. Additional topics include HTTP, architectural choices, multi-threading issues and using JDBC. Together these topics provide a thorough background in developing web applications. Web applications are the core component of web based e-commerce and business-to-business transactions. Java is an excellent choice for server-side programming because it is both platform and web server independent. Prerequisites: CAPR 3601 Java for Object-Oriented Experienced Programmers and familiarity with HTML or equivalent.

Geoff Thompson, M.S., and Greg Holling, B.S.
Section 300: Tuesdays, September 11–October 23, 6–9 p.m. 7 sessions. Humanities 250. $495.

Java Servlets
CAPR 5603
Servlets are Java programs that are used to create dynamic web content. They are faster, more portable, and more secure than most of the competing technologies. This one-day course covers what a servlet is, how servlets are managed by the web server, servlet gotchas, and the relationship between servlets and Java Server Pages (JSP’s) and Enterprise Java Beans (EJB’s). We’ll also compare servlets with competing technologies, such as CGI and ASP. Prerequisite: CAPR 2601 Introduction to Object-Oriented Programming Using Java or equivalent. Some experience with HTML and/or JavaScript will also be helpful, but is not required. Recommended text: Inside Servlets, Dustin R. Callaway (Addison Wesley Longman).

Greg Holling, B.S.
Section 300: Saturday, October 20, 9 a.m.–4 p.m. 1 session. University Computing Center 123. $200.
Network Embedded Java Programming
CAPR 5604
This course provides a hands-on introduction to programming network-enabled embedded computers in Java. The course will focus on Dallas Semiconductor's TINI board, http://www.ibutton.com/TINI/index.html. Topics include embedded programming principles, the TINI platform (hardware/firmware/software), provisioning, interfacing, programming and deploying a TINI application. See http://www.profcon.com/profcon/tini.html for further details, particularly about the hardware that students must acquire prior to class. Prerequisites: Java programming at the level of CAPR 4601 Advanced Java Programming Language Topics and CAPR 4602 Advanced Java Library Topic or equivalent.

George Watson
Section 300: Saturdays, December 1 and 8, 9 a.m.-4 p.m. 2 sessions. Humanities 245. $415.

Object-Oriented Design Patterns
CAPR 5401
Designers of object-oriented software have compiled many common architectural solutions to common problems, known as "design patterns". A pattern captures a recurring micro-architecture described in terms of how objects interact to perform a computation. Learning these patterns helps programmers evaluate, communicate, review and implement software designs more effectively. The patterns form a catalog of reusable architectural mechanisms (not a body of reusable source code). This one-day lecture class will explain the design pattern concepts, terminology and benefits and will present a number of fundamental patterns. Prerequisite: Familiarity programming with objects or an introduction to object-oriented programming class such as CAPR 2102 Introduction to Object-Oriented Programming in C++ or CAPR 2601 Introduction to Object-Oriented Programming Using Java. Recommended text: Object-Oriented Design Patterns, Gamma, et al.

Richard Wolniewicz, Ph.D.
Section 300: Saturday, November 3, 9 a.m.-4 p.m. 1 session. University Computing Center 123. $200.

Object-Oriented Analysis and Design
CAPR 5402
This workshop combines lecture and student participation to give you a firm grounding in the fundamental precepts of object-oriented analysis and design. The exercises take a manageable, but non-trivial task (i.e., a small email system) from analysis through design. The primary analysis tools are Rumbaugh Links and CRC cards, though the instructor can address other methodologies. The primary design tool is interface prototyping, which can be done in either C++ or Java. This course will be useful for anyone wondering how to find the objects. Upon completion, you will have an excellent foundation to get the most out of C++ and Java or other object-oriented languages. Class size limited to 15 students. Prerequisite: CAPR 2102 Introduction to Object-Oriented Programming in C++ or CAPR 2601 Introduction to Object-Oriented Programming Using Java or equivalent. Students should be comfortable programming with objects.

Paul Jensen, M.S.
Section 300: Friday and Saturday, November 9 and 10, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. $495.

Introduction to Perl for Programmers
CAPR 2701
This introduction to the Perl language is intended for students who have had some programming experience. This course is not intended to teach general programming concepts; therefore, students should be familiar with general programming concepts such as variables, statements, parameter passing and the idea of modularized code (i.e., functions/subroutines/methods). This class teaches Perl 5. As it is only an introduction to Perl, the time that is spent covering each topic in the outline is limited and only meant to be an introduction. Additionally, we will not be covering advanced topics such as working with modules. Prerequisite: CAPR 1001 Introduction to Programming I or equivalent. Recommended text: Perl for Programmers, 3rd Edition, Wall, Christiansen and Orwant (O'Reilly).

Joyce E. Evans, B.A.
Section 300: Thursdays, October 18-November 15, 6-9 p.m. 5 sessions. Humanities 1845. $440.
Extensible Mark-up Language (XML)
CAPR 3701
Got data? XML (Extensible Markup Language) is a W3C standard for encoding self-describing data. It is designed to ease the interchange of diverse types of data across a variety of platforms and applications, including the Web. This course presents a detailed introduction to XML and its related alphabet soup: DTD (for specifying document types), XSL (for stylesheets), DOM (for object tree construction) and SAX (for event-based parsing). It will provide sufficient depth to enable an evaluation of XML's suitability for your needs. Attendees will learn the basic skills of defining and creating XML documents and the use of an XML validator, stylesheet processing using CSS and XSL, and use of the DOM and SAX parsers to extract XML content for use in Java programs. Prerequisite: Knowledge of programming, preferably in Java. For example, CAPR 2601 Introduction to Object-Oriented Programming Using Java or equivalent. Detailed knowledge of SGML and HTML is not required.

Brian DeCamp, B.S.
Section 300: Thursdays, October 25-November 15, 6-9 p.m. 4 sessions. Humanities 145. $415.

Introduction to Hands-On Visual Basic Programming
CAPR 2301
Visual Basic is a programming language that allows both beginning and experienced programmers to create custom Windows software without having to write out lines of code. The code is automatically generated as the standard Windows elements are inserted into the program by pointing and clicking with the mouse. The "Visual" (graphical) nature of this software makes it possible to create custom Windows programs relatively quickly and easily. Prerequisite: CAAP 2111 Windows 95 Level I or a working knowledge of Windows.

David Nelson, B.S.
Section 300: Mondays, September 10-October 8, 6-9 p.m. 5 sessions. University Computing Center 127. $400.

Intermediate Hands-On Visual Basic Programming
CAPR 3301
This course is intended for students who have completed the beginning course in programming in Visual Basic, or have the equivalent practical experience. The course will cover a wide range of topics. The goal of the course is to expose a beginning programmer to the possibilities of using Visual Basic in modern applications. Most major elements of the language are covered and concepts of component-oriented applications are introduced. Prerequisite: CAPR 2301 Introduction to Hands-On Visual Basic Programming or equivalent.

Steve Kaminski, MSE.
Section 300: Saturdays, October 27-November 10, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. $415.

Introduction to Software Project Management
CAPR 5501
Successful software projects are those that coordinate the activities of developers, marketers, quality assurance engineers, technical writers and other team members to solve complete real-world problems. This course will cover successful software project management for new project managers and those interested in understanding successful project planning. Topics include requirements analysis, project scheduling, risk management, quality assurance, testing, and team coordination. A variety of planning approaches will be discussed, including iterative, RAD, spiral, and waterfall methodologies, with an in-depth look at an object-oriented, iterative approach. The class will introduce the use of light-weight software planning tools, particularly Microsoft Project. Prerequisite: Knowledge of C++ or Java Programming or equivalent. Recommended text: Software Project Survival Guide, Steve McConnell.

Richard Wolniecz, Ph.D.
Section 300: Mondays, September 17-October 8, 6-9 p.m. 4 sessions. Stadium 140. $395.

As a network analyst in the telecommunications industry, Scott Buchholz troubleshoots fiber optic networks. He's currently working toward a certificate in Network Administration from Continuing Education at CU. "The certificate will broaden my experience and give me more flexibility with my career." Scott sees great value in the certificates offered through the Computer Applications Program. "The hours are convenient, the cost is reasonable, and the instructors are quite knowledgeable."
THE REAL ESTATE AND APPRAISAL PROGRAM (REAP) provides statewide professional development courses for individuals planning to enter the real estate and appraisal professions, as well as continuing education for those already working in these specialties. REAP has the most comprehensive curriculum of pre-licensing and license renewal courses in the state of Colorado.

- Fully accredited curriculum of over 40 courses including all of the required pre-license and license renewal courses for the Colorado real estate and appraisal professions
- Top-notch faculty who work in the profession and who practice what they teach
- Early registration (“early bird”) discounts which save you between 5-20% off the regular course fee
- “No fear” registration policy which guarantees a full refund if you are unable to attend the course you signed up for

NEW REAL ESTATE LICENSES

The three levels of real estate licensees are associate broker, independent broker,* and employing broker.* Colorado real estate license law requires that an associate broker candidate successfully complete the six courses described below (168 classroom hours), pass the real estate broker’s examination, and submit the appropriate licensing application to the Colorado Real Estate Commission.

For more information about these requirements, the state exam, and/or the application process, call the Colorado Real Estate Commission at 303-894-2166 or visit the web site at www.dora.state.co.us/Real-Estate.

Real Estate Law and Practice
NCRE 007
Designed to teach you the practice of real estate and prepare you for the uniform portion of the real estate broker’s examination, this comprehensive survey of the real estate field is also useful to anyone who desires a basic knowledge of real estate. Topics include real property interests, government controls, deeds, contracts, finance and appraisal, as well as fundamental concepts and vocabulary. 48 hours

Colorado Contracts and Regulations
NCRE 020
This practical course introduces you to Colorado’s license law, regulations, and standard contracts, and prepares you for the state portion of the real estate broker’s examination. We will analyze the standard listing contract, sales contracts, the extension agreement, and the counterproposal. Our approach emphasizes thoroughly understanding each clause of a contract and properly completing each type of agreement. 48 hours

Record Keeping and Trust Accounts
NCRE 022
In this one-day course you will learn the proper record keeping procedures required by the Real Estate Commission to maintain and account for funds belonging to others. Topics include legal requirements, special areas of concern, and termination of the brokerage relationship. 8 hours

Real Estate Closings
NCRE 029
You will learn to properly close a real estate transaction, including understanding your responsibilities as a broker, accounting for all funds received and disbursed, and becoming familiar with all related legal documents. You will be introduced to the 6-column worksheet and you will work through at least eight sample closings. 24 hours

Practical Applications
NCRE 032
After learning about real estate principles, regulations, policies, and procedures, this is the course where you learn the realities of working in the profession. It gives you “how to” information on such topics as entering the field, developing your market, establishing a brokerage relationship, showing a property, preparing and presenting an offer, and closing a transaction. 32 hours

Current Legal Issues
NCRE 034
In this one-day course, you will participate in a workshop where you will be applying selected, current real estate statutes and regulations, and discussing important legal issues, developments, and practices. 8 hours

Exam Prep
NCRE 099
This two-day course will prepare new and current licensees to successfully pass the Colorado portion of the state exam. The state exam is required in obtaining or upgrading a real estate license and may be used in lieu of continuing education credits for license renewal. This course will not provide continuing education credits for license renewal.

* The Real Estate and Appraisal Program also offers the courses required to upgrade your license to the independent broker or employing broker levels and offers continuing education courses toward license renewal.
NEW APPRAISAL LICENSES

Colorado has four classes of appraisers: Registered, Licensed,* Certified Residential* and Certified General.* A Registered Appraiser is an apprentice-level appraiser who may do mortgage work under the direct supervision of a licensed or certified appraiser (who must approve and sign the work). Candidates must successfully complete at least 75 hours of appraisal education and training, including 15 hours of ethics and standards of practice (the three courses described below), pass the Level A licensing exam, and submit a licensing application.

Please contact the Colorado Board of Real Estate Appraisers at 303-894-2166 or visit the website at www.dora.state.co.us/Real-Estate for additional information and clarification.

Registered Appraiser: Basic Appraisal Principles and Procedures
NCRE 200
This course is the first of our three-course series designed to meet the basic educational requirements for the Registered Appraiser. It covers appraisal fundamentals and prepares the applicant for the state exam. 48 hours

Standards and Ethics
NCRE 202
This course is designed to meet the 15-hour requirement of standards and ethics for the state and federal law, and is the second of our three-course Registered Appraiser series. Using the case method, students will study the 10 Uniform Standards of Professional Appraisal Practice as promulgated by the Appraisal Foundation. 16 hours

Basic Appraisal Applications: Residential Case Study
NCRE 204
This is the third of our three courses leading to the Registered Appraiser license. It requires you to work through the complete appraisal process for a residential property that is currently on the market, and includes a field trip to the property you will be appraising. Topics to be covered (and practiced) include, but are not limited to, inspection techniques, measuring, sales confirmations, comparable analysis, using the three approaches to value, and preparing narrative addenda. 32 hours

* The Real Estate and Appraisal Program also offers all of the required courses to upgrade to the Licensed, Certified Residential and Certified General license levels.

For additional information, course dates, locations, registration, request a Real Estate and Appraisal catalog:

Metro Denver/Boulder 303-492-5148
TTY 303-492-8905
National toll-free 800-331-2801
FAX 303-492-3962

Or visit the web site:
www.colorado.edu/conted/RealEstate/
INTERNATIONAL ENGLISH CENTER

In addition to its intensive, full-time program for international students, the International English Center (IEC) provides evening classes in English as a second language for community residents or interested visitors from other countries. Meeting on Mondays and Wednesdays at a cost of $280 (text included) for seven weeks, the classes are offered at three different proficiency levels—beginning, intermediate, and advanced. Courses in practical writing and pronunciation are offered on Tuesdays and Thursdays for $350 for seven weeks. For registration information, visit the IEC at 1030 13th Street or call 303-492-5547.

Beginning Level (NCFL 900) MW 6:30-8:30 p.m. For students who speak in simple sentences, understand some (not necessarily all) of what is said, and are familiar with the present tense (but may have some difficulty with past and future).

Intermediate Level (NCFL 910) MW 6:30-8:30 p.m. For students who have more than a basic vocabulary, understand much of what is said, and can use most verb tenses effectively. This class is also for students who read a variety of materials with some difficulty and need guidance in writing.

Advanced Level (NCFL 920) MW 6:30-8:30 p.m. For students who have an extended vocabulary, understand most verb tenses effectively, read a variety of materials with little difficulty, write effectively with little guidance, and have a desire to polish their skills.

Effective Pronunciation (NCFL 950) TR 6:30-8:30 p.m. This course is designed for students who wish to improve their comprehensibility. Students will practice pronunciation using a variety of communicative techniques.

Practical Writing Skills (NCFL 960) TR 6:30-8:30 p.m. For students who need help with more advance written expression, grammar and mechanics. In addition, this course provides instruction on informal letters, business letters, application forms, and other everyday writing needs, and cultivates a better understanding of formal and informal writing styles and conventions. Note: The student will receive individual assessment of writing skills and receive attention with individual needs.

web: www.colorado.edu/iec
email: iecceu@colorado.edu

CENTER FOR BUSINESS EDUCATION

The Center for Business Education (CBE) is a partnership between Continuing Education and the College of Business offering noncredit business and professional development programs. The CBE offers certificate programs in executive development and business education, including the Colorado Executive Development in Residence (CEDIR) program and the CU Business Intensive Certificate (CUBIC) program.

The Colorado Executive Development in Residence (CEDIR) program offers managers and decision makers the opportunity to enhance their business skills, offering a curriculum that combines fundamental business concepts with cutting edge business issues. Employees at IBM, Sun Microsystems and Level 3 Communications have found the program to be valuable as well as a tremendous opportunity to learn from their fellow students and top-notch faculty.

The CU Business Intensive Certificate (CUBIC) program offers non-business undergraduate students a unique opportunity to learn fundamental business skills. Majors from Anthropology to Engineering have found the CUBIC program enhances their degrees and gives them a competitive edge in the job market.

For more information on these programs please visit our web site at bus.colorado.edu/cbe or call 303-735-1246.
University of Colorado
at Boulder
Main Campus

During any special event, Continuing Education students shall present their registration receipt to obtain parking at no extra charge (Parking Regulation III-D-6a).

Continuing Education students may also purchase parking permits from Parking Services for an additional fee.

University meters are enforced between 7:00 a.m. and 5:00 p.m. seven days a week, including Saturdays and Sundays.

Based on map produced by Student Affairs Communications.
1. **Register by Mail.** A postage-paid envelope is located in this catalog. Registration forms are on page 67 for evening credit and page 68 for personal enrichment and computer courses.

2. **Fax Your Registration.** Fast and easy. Day or night to 303-492-3962. Send page 67 for evening credit courses and page 68 for personal enrichment and computer courses.

3. **In Person.** Come to the Continuing Education Office, 1505 University Avenue, between 8 a.m. and 6 p.m. Monday through Thursday (8 a.m. to 5 p.m. Fridays).

4. **By Phone for Personal Enrichment and Computer Courses using Visa, MasterCard, and Discover.** Complete the registration form (page 68) and have your credit card information handy. Then call 303-492-5148 or 800-331-2801 between 9:30 a.m. and 5:30 p.m. Monday through Thursday or until 5 p.m. on Friday. (TTY 303-492-8205).

5. **Use CU Connect or PLUS for Boulder Evening and Independent Learning Courses.** See page 18 for more information.

Costs vary. Tuition is listed at the end of each course description. You may pay by Visa, MasterCard, Discover, cash or check.

**Tuition**
Tuition charges for credit courses offered by the Division of Continuing Education are determined by program and by the residency status of the student. Residents of Colorado are assessed tuition based on the price per semester hour and the number of semester hours for which they register. Tuition is based on the cost cited in the most recent program. Nonresidents of Colorado are assessed tuition based on the price per semester hour and the number of semester hours for which they register. Nonresidents may register for up to three (3) semester hours at the nonresident reduced rate cited in the most recent program. Nonresidents registering for four (4) or more semester hours of credit courses offered by the Division of Continuing Education, regardless of program, are assessed nonresident tuition for all courses at the rate established by the Board of Regents for that term or session. The Board of Regents reserves the right to change tuition without prior notice.

Student residency does not affect tuition cost for Personal Enrichment or Computer Applications courses.

All tuition and refund determinations are subject to audit.

**Credit Programs**
You can earn academic credit at every level, high school through graduate school in a variety of learning formats. Credit programs include:

- **Boulder Evening Credit Program**
- **Independent Learning Programs**
- **ACCESS and High School Concurrent Programs**
- **Center for Advanced Training in Engineering and Computer Science**
- **Summer Session**

**Learning for Learning’s Sake:**
**Personal Enrichment Program**
Noncredit courses offered at convenient evening hours means no tests, no grades, and no prerequisites. Yet personal enrichment courses encompass both personal and professional interests and are taught by highly qualified instructors. Enjoy non-competitive learning with others who share your interests.

**Professional Enhancement:**
**Certificate Programs**
To polish skills or explore another field, Continuing Education offers a full spectrum of programs.

- **Network Administration**
- **Programming**
- **Web Site Design**

**Professional Development Programs**
For working professionals to build and enhance business skills.

- **Center for Business Education**
- **Real Estate and Appraisal Program**
- **International English Center**

**Where Are Courses Given?**
Course locations are noted at the end of most course descriptions. Many campus parking lots offer $1.25 parking after 5 p.m. and on Saturdays. Some are free during evenings and weekends. The Campus Map gives both building and parking lot locations. To skip parking altogether, take the RTD bus to campus.

**Course Updates**
Occasionally information printed in this catalog changes such as course locations, cancellations, etc. For the most up-to-date information, visit our web site at [www.colorado.edu/conted](http://www.colorado.edu/conted).

**Change Your Mind?**
Please let us know. If you drop a course before it begins, you may receive a full refund. Refer to each program description for refund policies after a course begins.

**Student Privacy**
You may elect to have directory information withheld about yourself which includes requesting transcripts over the phone. Please call or visit our office to receive the required form.

**Severe Weather**
Classes are held when scheduled. The Chancellor closes the campus only because of extreme weather conditions. Closings are announced on local radio and television stations. Or call 303-735-5000 for course closing information.

**Books and Supplies**
Required course materials are available at the CU Bookstore in the basement of the University Memorial Center on campus. Call 303-492-6411 or visit their web site at [cubooks.colorado.edu](http://cubooks.colorado.edu)

Call us at 303-492-5148 or 800-331-2801 (TTY 303-492-8905) if you need any help or additional information.
**CREDIT REGISTRATION FORM**

**UNIVERSITY OF COLORADO**

**DIVISION OF CONTINUING EDUCATION**

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Middle Name</th>
<th>Former or Maiden Name</th>
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Mailing address: 

No. and Street, Apt. No. 

City | State | Zip Code + 4 

E-mail address: 

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<tr>
<th>BIRTHDATE</th>
<th>SEX:</th>
<th>ETHNICITY:</th>
<th>RESIDENCY:</th>
<th>SOCIAL SECURITY NUMBER:</th>
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<td>Month/Day/Year</td>
<td>Male</td>
<td>African American or Black, not of Hispanic origin</td>
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<td>Multiracial – define:</td>
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<td>White, not of Hispanic origin</td>
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<td>I do not wish to provide this information</td>
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CITIZENSHIP: 

- C=U.S. Citizen 
- P=Non-U.S. Citizen/permanent status
- T=Non-U.S. Citizen–Country
- List Type of Temporary Visa

1. Do you have a high school diploma or a G.E.D. Certificate? 
   - No [ ] Submit HS Concurrent Form [ ] Yes [ ] 
   - High School Name/City/State: [ ] Graduation Date: [ ]

2. Have you ever enrolled for credit course(s) at any campus of the University of Colorado? 
   - No [ ] Yes [ ] Campus: [ ] Term: [ ] Year: [ ] of most recent attendance 
   - Degree Student [ ] Nondegree Student [ ]

3. Are you currently on suspension from any Campus/School of CU? 
   - No [ ] Yes [ ] School: [ ]

4. Do you owe a debt to any University of Colorado campus? 
   - No [ ] Yes [ ]

5. Do you have a college degree? 
   - No [ ] Yes [ ] Highest Degree: [ ] Date Awarded: [ ]
   - College Name/City/State: [ ]

6. Have you ever been convicted of a felony? (other than traffic violation) 
   - No [ ] Yes [ ] (Attach statement)

**DEPT.** | **COURSE NO.** | **CRED HRS.** | **SECT. NO.** | **TITLE(S) OF COURSE(S) FOR WHICH YOU ARE ENROLLING** | **LOCATION**
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**COMPLETE THIS SECTION IF YOU HAVE NOT ATTENDED ANY UNIVERSITY OF COLORADO CAMPUS WITHIN THE LAST 12 MONTHS AND ARE CLAIMING IN-STATE TUITION CLASSIFICATION.**

Students already classified as nonresidents must submit a separate "Petition for In- State Tuition" in order to change their tuition classification.

**FAILURE TO ANSWER EACH QUESTION MAY RESULT IN YOUR BEING CLASSIFIED AS A NONRESIDENT.**

<table>
<thead>
<tr>
<th>Question</th>
<th>YES</th>
<th>NO</th>
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<tbody>
<tr>
<td>Date of continuous physical presence in Colorado (mo./day/yr):</td>
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<tr>
<td>Date of employment in Colorado (mo./day/yr):</td>
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<tr>
<td>List exact years for which Colorado income taxes have been filed</td>
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<tr>
<td>Date of extended absences from Colorado of more than two months within the past two years (mo./day/yr):</td>
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<tr>
<td>Date of active duty military service, if applicable (mo./day/yr):</td>
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<tr>
<td>If military, dates stationed in Colorado (mo./day/yr):</td>
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<tr>
<td>Date current Colorado driver's license, if applicable (mo./day/yr):</td>
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<tr>
<td>List exact years of Colorado motor vehicle registration</td>
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<tr>
<td>Date of Colorado voter registration (mo./day/yr):</td>
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<td>/ / /</td>
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<tr>
<td>Date of ownership of any Colorado residential property (mo./day/yr):</td>
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</table>

I hereby certify that to the best of my knowledge the information furnished on this application is true and complete without evasion or misrepresentation. I understand that if found to be otherwise, it is sufficient cause for rejection or dismissal.

Student's Signature: [ ] Date: [ ]

**TUITION PAYMENT**

Please send a check, payable to University of Colorado, to:

Division of Continuing Education 

University of Colorado at Boulder, 178 UCB 

Boulder, CO 80309-0178

If using MasterCard, VISA, Discover enclose the following information:

Charge: VISA [ ] MasterCard [ ] Discover [ ] (check one)

Expiration Date: [ ]

Print Cardholder's name, as it appears on the charge card.

MAIL TODAY! 

FAX: 303-492-3962 

STOP BY: 1505 University Avenue
The University of Colorado at Boulder does not discriminate on the basis of race, color, national origin, sex, age, disability, creed, religion, 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.

University of Colorado Catalog (USPS 651-060) is published 8X a year (January/February, March/April, May/June, August, September, December), by the University of Colorado, 3100 Marine Street, 584 UCB, Boulder, CO 80309-0584. Volume 2001, No. 6. Periodicals Postage Paid at Boulder, Colorado. POSTMASTER: Send address changes to University of Colorado Catalog, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178.

The Department of Equal Opportunity is responsible for educational and employment opportunity, implementation of affirmative action programs, and coordination of Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1973, the Vietnam Era Veterans Readjustment Act of 1974, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. For further information about these provisions, or about issues of equity, discrimination, or fairness, write Garnett K. Tanum, Director, Department of Equal Opportunity, Willard Hall 209, University of Colorado at Boulder, 144 UCB, Boulder, CO 80309-0144 or call 303-492-6706.

This publication was printed and mailed using funds generated solely by Continuing Education programs. Continuing Education regrets any printing errors, but accepts no liability for them.

REGISTRATION FOR CERTIFICATE AND NONCREDIT COURSES

PLEASE PRINT

S.S. No. # ____________________________

For identification purpose. If you wish to claim continuing education tax credits, your social security number must be provided.

Former Student Number ____________________________

Birthdate ____________________________

Month/Day/Year

Last Name ____________________________ First Name ____________________________ Middle Initial ____________________________ Maiden Name ____________________________

Mailing Address ____________________________ Home Telephone ____________________________

City ____________________________ State ____________________________ Zip ____________________________

Business Name ____________________________ Office Telephone ____________________________

City ____________________________ State ____________________________ Zip ____________________________

E-mail address ____________________________

Sex □ Male □ Female

Have you ever enrolled for course(s) at any campus of the University of Colorado? □ No □ Yes

Campus ____________________________

Term ____________________________

Year ____________________________ of most recent attendance.

Have you ever been convicted of a felony (other than a traffic violation)? □ No □ Yes (attach statement)

ETHNICITY:

□ African American or Black, not of Hispanic origin

□ American Indian or Alaskan Native – Tribe:

□ Asian or Pacific Islander

□ Hispanic, Chicano, Mexican American, Latino

□ Multiracial – define:

□ White, not of Hispanic origin

□ I do not wish to provide this information

SELECTIVE SERVICE REGISTRATION CERTIFICATION:

□ I certify that I am registered with the Selective Service

□ I am not required to register with the Selective Service because:

□ I am a female.

□ I am in the U.S. Armed Forces on active duty.

□ I have not yet reached my 18th birthday.

□ I am age 26 or older, as of the date of the first day of class.

□ I am a non-immigrant alien lawfully admitted in the U.S.

Course No. ____________________________ Section No. ____________________________ Course Title ____________________________

Tuition ____________________________

Attach additional sheet if needed Total Enclosed

Please register me for the course(s) listed above.

Signature ____________________________ Date ____________________________

TUITION PAYMENT

Please send a check, payable to University of Colorado, to:

Division of Continuing Education

University of Colorado at Boulder

178 UCB

Boulder, CO 80309-0178

If using MasterCard, VISA, Discover enclose the following information:

Charge: □ VISA □ MasterCard □ Discover □ (check one)

Exp. Date □ □ □ □

Print Cardholder's name, as it appears on the charge card.

Note that credit card enrollments can be made by phone (see Registration Information).
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