

SASC Course Descriptions Spring 2024

Humanities and Social Sciences

ARSC 1080: College Writing and Research (4 credits)

Introduces academic and professional genres through the research and inquiry process and the application of the study of rhetoric. Students practice rhetorical skills, close reading, oral presentation, drafting, synthesis, analysis and research skills in discussion, writing workshops, and one-on-one conferences.

ARSC 2000: Ways of Knowing (3 credits)

This course asks students to interrogate natural learning tendencies, how they know what they know, and how to cultivate other ways of knowing beyond intellectual. They analyze how knowledge is created, discovered, and interpreted. They'll explore what faculties are involved in learning, seeing, understanding and knowing; how revolutions in knowledge arise; the relationship between knowledge and power; and what wisdom is. Students draw on different ways of expressing knowledge, including the intellect, intuition, and more.

ARSC 3100: Multicultural Perspective and Academic Discourse (3 credits)

This course considers the rhetoric of multicultural discourse, including aspects of cultural identity and academic conversations across disciplines and cultures. Students acquire expertise on issues through readings, guided discussion, and research and practice oral presentation skills, rhetorical analysis, drafting, and workshopping of papers.

EDUC 1500: Success Strategies in Higher Education (1 credit)

Introduces students to learning theories and a range of college success strategies to deepen their engagement with their academic work. Students will learn metacognitive practices to identify the values and aims driving their academic ambitions and craft their most successful path through their undergraduate experience.

ECON 2: Macroeconomics (4 credits)

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.

EDUC 2800: Ethics of Ambition (1 credit)

How can we live a meaningful life? In every society, there are people who aggressively pursue ambition and others who are not so aggressive. How can leaders integrate their dreams with the needs of their communities? Even altruistic ambition may violate the ethical obligations owed to family and community. In this seminar, we will explore the moral ambiguities inherent in ambitious pursuits. Our core goal in this course will be to consider the following

question: How might we become moral agents, leaders who are models of principle and conscience?

EDUC 2800: Research as Leadership (1 credit)

The Research as Leadership course is designed for students to engage with data collection and analysis applied to real world issues such as affordable housing, equity in education, and climate change. Students will identify issues that are connected to their identities as leaders, and work with campus and community partners to collaboratively design projects for action utilizing focus group, interview, observational, survey, and/or document review methods towards findings that catalyze social change.

Mathematics and Science

ARSC 1440: Coseminar in Mathematics (1 credit)

Offers an unusual and essential opportunity for students to receive small-group enrichment and reinforcement. Supplements and strengthens student experiences in mathematics, allowing students an opportunity to extend their understanding of the subject in a supportive environment, and to explore possible careers in science.

CHEM 1113: General Chemistry 1 (4 credits)

Intended for first-semester students whose academic plans require advanced work in chemistry.

Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium.

CHEM 1133: General Chemistry 2 (4 credits)

Intended for second-semester students whose academic plans require advanced work in chemistry.

Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry.

EBIO 1220: General Biology 2 (3 credits)

Provides a concentrated introduction to organisms, homeostasis, development, behavior, and ecology.

Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors.

IPHY 3410: Human Anatomy (3 credits)

Explores the cells, tissues, and organs that compose the different anatomical systems including integumentary, skeletal, muscular, digestive, respiratory, cardiovascular, lymphatic, nervous,

urinary
and reproductive.

MATH 1112: Mathematical Analysis in Business (3 credits)

Gives students experience with mathematical problem solving in real business contexts. Students will work with data and spreadsheets to build and analyze mathematical models. Themes of the course include applying logical operators to model business rules, interpreting data and using tables and

MATH 1150: Precalculus (4 credits)

Develops techniques and concepts prerequisite to calculus through the study of trigonometric, exponential, logarithmic, polynomial and other functions.

MATH 1300: Calculus (5 credits)

Topics include limits, derivatives of algebraic and transcendental functions, applications of the derivative, integration and applications of the definite integral. Students who have already earned college credit for calculus 1 are eligible to enroll in this course if they want to solidify their knowledge base in calculus 1.

MATH 2510: Intro to Statistics (3 credits)

Elementary statistical measures. Introduces statistical distributions, statistical inference, hypothesis testing and linear regression. Department enforced prerequisite: two years of high school algebra.