

SASC Course Descriptions Spring 2025

Humanities and Social Sciences

ARSC 1080: College Writing and Research (4 credits)

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

ARSC 2000: Constructions of Knowledge (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)

Teaches students how to write academic papers related to race, class, gender, sexuality, and other areas of cultural identity. Students acquire expertise on issues through readings, guided discussion, and research and practice oral presentation skills, drafting, and workshopping of papers.

LEAD 1000: Becoming a Leader (4 credits)

The foundation course will prepare students to exercise leadership in business, government and community organizations. Introduces leadership skills useful in a variety of settings including community and civic activities. Helps students to improve self awareness, understand multiple theories, recognize moral courage, build analytic and critical thinking skills and adapt leadership practices to different people and contexts.

ARSC 1490: Mindful Campus: Meditation and Mindfulness for Students (Humanities Seminar) (1 credit)

This is an undergraduate level 1-credit course aimed at encouraging students to apply mindfulness and meditation to different aspects of their lives. The course intends to demonstrate the usefulness and relevance of meditation practices to college students and encourages them to apply these practices to complement their personal, academic, and communal lives at CU Boulder.

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: Microeconomics (4 credits)

Examines basic concepts of microeconomics or the behavior and the interactions of individuals, firms and government. Topics include determining economic problems, how consumers and businesses make decisions, how markets work, and how they fail and how government actions affect markets.

EDUC 2800: Ethics of Ambition: Ethical Puzzles and Moral Conflicts (1 credit)

Complex issues call upon us to consider ethical and moral considerations such as human rights, global and environmental justice, animal rights, and other rights and responsibilities. Ethics represents the moral code that guides a person's choices and behaviors. The idea of a moral code extends beyond the individual to include what is deemed correct and wrong for a community or society.

The course will consist of lectures, case studies, and extensive student participation, all in the service of thoughtfully reflecting on the nature of the right and the good, character, and agency. Students will develop analytical abilities and acquire reading, writing, thinking, presentation, and argumentation skills to assist them in Ethical Puzzles & Moral Conflicts and other courses.

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 particularly gifted 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 1210: General Biology 1 (3 credits)

Provides a concentrated introduction to molecular, cellular, genetic, and evolutionary biology. 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 1011: College Algebra (3 credits)

Covers simplifying algebraic expressions, factoring, linear and quadratic equations, inequalities, exponentials, logarithms, functions, graphs and systems of equations.

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 1 (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: Introduction to Statistics (3 credits)

Elementary statistical measures. Introduces statistical distributions, statistical inference, hypothesis testing and linear regression.