

ENVIRONMENTAL SCIENCE (ENVSCI)

Courses

ENVSCI 100 EXPLORATION OF THE ENVIRONMENTAL SCIENCE MAJOR 1 Units

This course provides information about environmental science to recently declared majors. Students will be introduced to the requirements of the major, curricular and co-curricular activities, academic advising, emphasis areas, and internship and employment opportunities.

PREREQ: MUST BE A DECLARED ENVIRONMENTAL SCIENCE MAJOR

ENVSCI 200 INTRODUCTION TO ENVIRONMENTAL SCIENCE 3 Units

This course introduces the discipline of environmental science. Through the exploration of scientific principles, students will expand and develop their knowledge of ecosystem processes, energy sources, landscape change, and environmental policies. The ultimate object of the course is to become informed on the role scientific exploration plays in understanding climate change, biodiversity, sustainable development, water pollution, and other environmental issues currently facing society.

PREREQ: MATH 139 OR MATH 141 OR MATH 142

ENVSCI 222 INTRODUCTION TO SUSTAINABILITY 3 Units

"Sustainability" is the new mantra for communities, nations, and companies around the world. The elusive term means many things to many people, but what's at its heart? And should we be striving to achieve it? In this course, we'll explore the history and origins of the term, how it's used within academia, governments, and corporations and sort the "greenwashing" from actual structural change. Along the way, we'll explore practical attempts to achieve sustainability and undertake an audit of our own.

PREREQ: (C OR BETTER IN MATH 41) OR (PLACEMENT INTO MATH 139 OR HIGHER)

ENVSCI 250 INTRODUCTION TO ENVIRONMENTAL SCIENCE IN NATIONAL PARKS 4 Units

An interdisciplinary introduction to field methods, geology, environmental change, and natural history. Involves online work with additional lectures and labs at Yellowstone, Grand Teton, and Rocky Mountain National Parks and locations en route. Additional course fees apply. Students with disabilities may be accommodated. Biology, Environmental Science, or Geology/Geography majors take ENVSCI 451/GEOLGY 451 or see Department Chair. Summers only.

PREREQ: (PRIOR COMPLETION OR CONCURRENT ENROLLMENT IN (MATH 139 OR MATH 140 OR MATH 141 OR MATH 142)) AND INSTRUCTOR CONSENT

ENVSCI 296 SPECIAL STUDIES *Repeatable* 1-4 Units

Variable topics. Group activity. Not offered regularly in the curriculum but offered on topics selected on the basis of timeliness, need, and interest, and generally in the format of regularly scheduled Catalog offerings. Repeatable only with change of topic.

ENVSCI 300 FIELD AND RESEARCH METHODS IN ENVIRONMENTAL SCIENCE 3 Units

This course introduces and develops field and research techniques used in environmental science. Emphasis is placed on the use and application of field data collection to address research questions. Focus areas include experimental design, formulating testable hypotheses and field methods. Students will be introduced to sampling designs and proper protocols for collecting accurate and repeatable field measurements.

PREREQ: ENVSCI 200 AND JUNIOR STANDING

ENVSCI 357 CONSERVATION BIOLOGY 3 Units

This course explores the conceptual foundations of conservation biology. We will study the primary threats to biodiversity, and pay particular attention to issues of habitat degradation and loss, overexploitation, species invasions, and climate change. We will learn and apply skills, tools, and biological principles that are used by conservation biologists to study, track, manage, and mitigate environmental threats.

PREREQ: BIOLOGY 257 OR INSTRUCTOR CONSENT

ENVSCI 400 ENVIRONMENTAL SCIENCE CAPSTONE 3 Units

This course enables students to utilize the wide range of knowledge and skills acquired in other courses to complete an original, interdisciplinary environmental science research project while acquiring and refining crucial skills such as research design, analysis, presentation, and teamwork that will prepare them for a career in environmental sciences.

PREREQ: ENVIRONMENT SCIENCE MAJOR, SENIOR STANDING OR CONSENT OF INSTRUCTOR

ENVSCI 451 ADVANCED ENVIRONMENTAL SCIENCE IN NATIONAL PARKS 3 Units

This is a multi-disciplinary, summer field course focusing on environmental change and natural history. It is held at Yellowstone, Grand Teton, and Rocky Mountain National Parks and locations en route. Students will learn field methods, geology, environmental change, and natural history. It is suitable for biology, environmental science, geography/geology majors and anyone interested in field science or natural history.

PREREQ: (GENERAL LAB (GL) OR LABORATORY SCIENCE (LS)) COURSE AND INSTRUCTOR CONSENT

ENVSCI 491 TRAVEL STUDY *Repeatable* 1-3 Units

Variable topics. Faculty-led field courses.

ENVSCI 493 INTERNSHIP IN ENVIRONMENTAL SCIENCE *Repeatable* 1-3 Units

ENVSCI 496 SPECIAL STUDIES *Repeatable* 1-4 Units

Variable topics. Group activity. Not offered regularly in the curriculum but offered on topics selected on the basis of timeliness, need, and interest, and generally in the format of regularly scheduled Catalog offerings. Repeatable only with change of topic.

ENVSCI 497 EXCHANGE STUDY *Repeatable* 1-12 Units

ENVSCI 498 INDEPENDENT STUDY IN ENVIRONMENTAL SCIENCE *Repeatable* 1-3 Units

Study of a selected topic or topics under the direction of a faculty member. Repeatable one time for a maximum of 6 credits in major/degree.

ENVSCI 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH *Repeatable* 1-3 Units

Study of a selected topic or topics under the direction of a faculty member. Repeatable one time for a maximum of 6 credits in major/degree.