

ENVS - ENVIRONMENTAL SCIENCE

ENVS 300

Principles of Environmental Science

3 Credits **Weekly (3-1.5-0)**

This course provides an introduction to the interdisciplinary nature of environmental science. Students will learn about the relationships between geological materials, air, water, soil, and ecosystems, and the interconnections between ecology, Earth science, and chemistry. Human interactions with the environment and environmental change will be examined on local and global scales by exploring issues such as climate change (past, present, and future), environmental pollution, environmental monitoring and remediation, endangered species, habitat loss, and land reclamation. Aspects of environmental policy and assessment will be introduced.

Prerequisite: Minimum grades of C- in BIOL 208, EASC 102, EASC 221, and CHEM 261.

ENVS 398

Independent Study

3 Credits **Total (0-0-72)**

This course permits an intermediate-level student to work with a faculty member to explore a specific topic in depth through research or through directed reading of primary and secondary sources. The student plans, executes, and reports the results of their research or study project under the direction of a faculty supervisor. To be granted enrollment in the course, the student must have made prior arrangements with a faculty member willing to supervise their project. This course can be taken twice for credit.

ENVS 492

Environmental Sciences Work Integrated Learning

3 Credits **Total (0-0-90)**

The student engages in work integrated learning in environmental sciences in a professional setting that would typically last for one semester. Any placement needs department approval. After the successful completion of the placement, there is a critical analysis/ demonstration of the learning accomplished. The contact hours are a minimum of 90 hours but can involve more depending on the placement. Consent of the Department is required.

ENVS 495

Special Topics in Environmental Sciences

3 Credits **Weekly (0-0-3)**

This course involves reading, discussing, and critically evaluating current research on specialized topics in Environmental Science. Topics covered vary with the interests of students and faculty. Note: This course is intended for students in the final year of their degree. This course may be taken twice for credit, provided the course topic is different.

ENVS 498

Advanced Independent Study

3 Credits **Total (0-0-72)**

This course permits a senior-level student to work with a faculty member to explore a specific topic in depth through research or through directed reading of primary and secondary sources. The student plans, executes, and reports the results of their research or study project under the direction of a faculty supervisor. To be granted enrollment in the course, the student must have made prior arrangements with a faculty member willing to supervise their project. This course can be taken twice for credit.

Prerequisites: A minimum grade of B- in at least one 300-level course in Biological Sciences, Chemistry, or Earth and Planetary Sciences; faculty mentors may require specific prerequisites according to the project needs.