

ENVIRONMENTAL SCIENCE (ENV)

ENV-297 Independent Study (2-4 credits)

Under the approval and direction of a faculty member, independent study is available to students.

ENV-341 Geographical Information Systems (3 credits)

This hands-on course in which students are given beginning-level opportunities to process, analyze and visualize spatial data and information using commercially-available GIS (Geographic Information Systems) software. In the process, they are introduced to the principles of GIS and its usefulness as an analytical tool and as an effective communication technique in addressing global, environmental and social science questions. The course also explores ethical issues pertaining to confidentiality and privacy when gathering and using GIS data.

Prerequisite(s): WDC: SSC-101 and 2 courses from Natural Science/ Math General Education requirements completed. WEC: LA 283 & LA 284 completed.

ENV-353 External Assessment in ENV (0 credits)

This assessment is taken following CH 335, Spectroscopic Methods of Analysis. The student with a major in environmental science has the opportunity to demonstrate her progress in analysis, problem solving, valuing, and developing a global perspective. She individually chooses a method for monitoring a given environmental contaminant and justifies her choice. She then works with colleagues to develop a plan for dealing with a real environmental issue.

Prerequisite(s): CH 335 or CH 336 or CH-337 completed.

ENV-374 ENV Assessment in Effective Citizenship (0 credits)

This assessment takes the form of volunteer research for a community organization. The student works with a community organization to develop a project that will use her environment research skills and benefit the community. She analyzes the organization to develop criteria for an effective product, uses appropriate research skills, and reports her findings in a manner appropriate to the audience.

ENV-397 Independent Study (0 credits)

Under the approval and direction of a faculty member, independent study is available to students.

ENV-398 Environmental Field Studies (3 credits)

Environmental Field Studies integrates experiential, service learning work as field researchers with scientific and humanistic inquiry into the historical and contemporary contexts that give meaning to this field research. In this full-time 6 unit summer course, students learn about and conduct needed field research designed and led by professional researchers in fisheries science, river geomorphology and watershed management. Readings, discussions, student writings, final projects and presentations cover both the specific science of the research project as well as more interdisciplinary approaches to the history and scope of ecological and environmentalist discourses generally.

ENV-399 Formal Introduction to Advanced Work (0 credits)

The Advanced-Level Event marks a significant accomplishment for each student as she proceeds into the work of her major department. When a department determines that a student is ready for advanced work within a discipline, the student is invited to participate in a ceremony that is both a celebration and an explanation of future requirements of the major and support areas. She registers for this experience at a point determined by her major department: for most majors the registration is connected to the taking of a particular course. Students and faculty gather for an afternoon during Mid-semester Assessment Days. Following a general program, students meet in departmental sessions with their faculty to discuss advanced outcomes, department courses, advising procedures, and so on.

Prerequisite(s): One BI, CH or GE 200-level course completed.

ENV-414 ENV Professional Portfolio (0 credits)

This assessment offers students with a major or a support area in environmental science the opportunity to show that they can effectively use and communicate information. The student assembles a portfolio of her communications, including laboratory notebooks, written reports and papers, videotapes of speeches, and abstracts. She describes the research strategies she employed in her portfolio work. She assesses her portfolio, describing her own strengths and weaknesses.

ENV-483 Advanced Internship Seminar (2 credits)

The student applies her analytical and problem-solving abilities as well as the frameworks of environmental science in researching a specific issue in an industrial, government, or health-related facility. She participates in an on-campus seminar directed by a family member of the environmental science faculty to reflect on her learning in a work environment.

Prerequisite(s): Departmental consent; confer with advisor; preplacement workshop required. See Internship Registration Procedures page for workshop schedule and required internship procedures.

ENV-491 Integrated Environmental Seminar (3 credits)

In this course the student examines current environmental issues selected by the class. She integrates what she has learned across the curriculum to investigate the scientific, political, economic, ethical, legal, and historical aspects of issues that affect the environment, and she develops and evaluates different plans of action. She also reflects extensively on her educational experiences and completes a culminating self assessment of her undergraduate work.

Prerequisite(s): A 3 credit 300-Level course completed.

ENV-495 Practicum:Site Environ Study III (2 credits)

The student applies her knowledge base and outcomes in environmental science in an industrial, educational, government, or health-related facility. She participates in an on-campus seminar directed by the instructor of ENV-495. The practicum and the environmental seminar focus on reflection and demonstration of the application of the outcomes of this major.

Prerequisite(s): Departmental consent; confer with advisor. Contact Internship Office for details and placement assistance.

ENV-497 Independent Study (0 credits)

Under the approval and direction of a faculty member, independent study is available to students.