Environmental Science & Policy (ENV S&P)

Courses

ENV S&P 701. Perspectives in Environmental Science and Policy. 1 Credit.
Introduces new Environmental Science & Policy graduate students to program requirements, expectations, resources, and faculty members.
P: graduate status
Fall and Spring.

ENV S&P 702. Stable Isotopes in the Environment. 1 Credit.
Stable isotope analysis has become a standard tool in the sciences. The natural variability in non-radioactive (stable) isotopes corresponds to specific physical and biological processes throughout the global Earth System. This course explores the basics of stable isotope chemistry, with most of the course dedicated to examples of their application across several scientific fields.
P: None. REC: CHEM 211 and CHEM 212
Spring Odd.

ENV S&P 715. Seminar in Ecology and Evolution. 1 Credit.
This graduate course provides a forum for discussion of contemporary ideas in ecology and evolution. Students and faculty discuss weekly readings in an informal atmosphere. Topics are chosen from the current scientific literature; examples from recent semesters include ecosystem stability, competition and coexistence, group selection, trophic dynamics, and complex species interactions.
P: gr st.
Fall and Spring.

ENV S&P 724. Hazardous and Toxic Materials. 3 Credits.
The handling, processing, and disposal of materials which have physical, chemical, and biological properties that present hazards to human, animal, and plant life; procedures for worker safety and for compliance with regulations. The metals and nonmetals, carcinogens, radioactive materials, and pathogenic human, animal, and plant wastes.
P: Graduate status
Spring Odd.

ENV S&P 731. Freshwater and Marine Policy & Law. 3 Credits.
This course examines fisheries policy, law, and administration in both freshwater and marine ecosystems. It covers environmental and administrative decision-making and various contemporary fisheries resource management problems and conflicts.
Fall Even.

ENV S&P 732. Wildlife Law and Policy. 3 Credits.
This course examines wildlife policy, law, and administration from multiple perspectives. It covers environmental and administrative decision-making and various contemporary resource management problems and conflicts.
Fall Odd.

ENV S&P 740. Ecology and Management of Ecosystems. 3 Credits.
This course addresses our current scientific understanding of ecosystems, and the application of this knowledge for the sustainable management of both human dominated and natural ecosystems and the biodiversity that they support.
P: gr st.
Spring Even.

ENV S&P 743. Ecology and Analysis of Communities and Landscapes. 3 Credits.
Community and landscape ecology move beyond the consideration of single species and their populations, emphasizing interactions among species and variation in space and time. Concepts and methods will be studied through lectures, readings, discussions, and practical analytical applications.
P: gr st; REC: prior cse in ecological studies and statistics.
Spring Odd.

ENV S&P 752. Environmental Policy and Administration. 3 Credits.
The political and institutional aspects of environmental policy-making and implementation, including issues in environmental policy analysis. Emphasis is on national policy processes in the United States, but attention is given also to global and state and local environmental problems and public policy.
P: gr st.
Fall Odd.

ENV S&P 755. Environmental Data Analysis. 4 Credits.
This course emphasizes the principles of data analysis using advanced statistical software (such as R, SAS, etc.). It employs primarily environmental examples to illustrate procedures for elementary statistical analysis, regression, analysis of variance and nonparametric statistics.
P: intro stats cse and grad st.
Fall Only.
ENV S&P 763. Capstone in Environmental Science and Policy. 3 Credits.
Capstone course of the program in Environmental Science and Policy. This course provides an overview of contemporary topics in global environmental change from the local to global scale, with emphasis placed on scientific evidence, policy approaches, public attitudes, and sustainable solutions. Both policy and scientific aspects of the topics are addressed.
P: major in Ms Env Sci and grad earned cr > or = 17.
Spring.

ENV S&P 767. Environmental Technology and Analysis. 3 Credits.
This course addresses our current scientific understanding of environmental remediation, waste transformation, utilization and disposal, as well as the chemical, biological and geological aspects of ground or surface water systems. Emphasis is on evaluating alternative technologies and strategies for generating ecologically sustainable systems.
P: enrollment in ES&P graduate program or instructor approval
Spring Odd.

ENV S&P 783. VARIABLE CONTENT. 1-4 Credits.
P: gr st.

ENV S&P 795. Special Topics. 1-3 Credits.
Topics vary.
P: graduate status.

ENV S&P 797. Internship. 1-6 Credits.
P: gr st.
Fall and Spring.

ENV S&P 798. Independent Study. 1-3 Credits.
P: gr st.
Fall and Spring.

ENV S&P 799. Thesis. 1-6 Credits.
Fall and Spring.