

Environmental Studies

DIRECTOR: JAMES D. PROCTOR

Environmental studies situates environmental problems and solutions in a scholarly context and works alongside other academic disciplines to build a more livable world. The field crosses traditional disciplinary boundaries, as deeper understanding of environmental problems and solutions requires attention to a wide range of concepts and analytical methods that span the sciences and humanities.

The Environmental Studies Program benefits from the participation of many departments in the College of Arts and Sciences, as well as the School of Law and Graduate School of Education and Counseling. We offer students opportunities for environmental research and engagement on campus, in nearby Tryon Creek State Park, in the Portland metropolitan area, in the greater Pacific Northwest, and in conjunction with Lewis & Clark's Overseas and Off-Campus Programs. The Environmental Studies Program combines intellectual rigor and breadth with practical experience in a vibrant, transdisciplinary field of scholarly inquiry.

The educational objective of the Environmental Studies Program is to provide resources and cultivate an atmosphere whereby students (1) appreciate the intellectual and practical complexities of environmental problems and solutions, (2) master key concepts and methods of environmental analysis drawn from, and integrating, a broad range of disciplines, and (3) fuse this background knowledge and analytical ability with leadership and communication skills to successfully devise and implement creative, academically grounded solutions to environmental problems.

A major in environmental studies is appropriate for students who desire future employment in the environmental arena or who want a broad, systematic liberal arts background to support further scholarly study in related natural science, social science, and humanities fields.

THE MAJOR PROGRAM

The major includes core courses in environmental studies, breadth courses in the natural sciences, social sciences, and humanities, and a concentration or second major. In order to build an intellectually coherent understanding of environmental problems and solutions, core courses are designed to weave together concepts and skills drawn from breadth course fields. The core sequence starts with a broad introductory course followed by development of quantitative and qualitative analytical skills and advanced treatment of environmental problems and solutions. It culminates with a senior thesis representing original scholarly research on a topic of practical relevance. Breadth courses in fields including biology, geology, economics, sociology, international affairs, history, and philosophy provide important discipline-specific tools for environmental analysis. As preparation for research culminating in the senior thesis, students choose courses defining a concentration or complete a second major in order to gain greater depth in one particular subfield of environmental studies.

All environmental studies majors are strongly urged to complete Mathematics 131 (Calculus I) to fulfill the Category B graduation requirement for scientific and quantitative reasoning.

MAJOR REQUIREMENTS

A minimum of 60 semester credits, including the following:

- Eighteen semester credits of core environmental studies courses, including 160, 220, 330, and 400, plus 499 (a 1-4 credit independent study as preparation for 400). Ideally, 160 should be taken during the freshman year, 220 during the sophomore year, 330 during the sophomore or junior year,

- and 400 during the senior year. This schedule may be adjusted to account for overseas study, which all majors are urged to pursue in conjunction with a number of environmental research opportunities. (See below.)
- Twenty-six semester credits of environmental studies breadth courses:
Natural sciences: Any two courses drawn from Biology 141, Chemistry 110, and Geology 150.
Social sciences: Economics 260 and Sociology/Anthropology 305 or International Affairs 257.
Humanities: Philosophy 215 and one 4-semester-credit humanities elective approved in conjunction with the concentration proposal. (See next item.)
 - Sixteen semester credits in a student-designed concentration, which may have a natural science, social science, and/or humanities focus and will be the basis for the senior thesis. At least two courses must be upper division. The concentration must be approved as part of declaring the major, generally no later than spring semester of the sophomore year. Please contact the Environmental Studies Program for details. Students pursuing a second major at Lewis & Clark do not require a concentration, but will be expected to complete a senior thesis applying their second field to environmental studies.

MINOR REQUIREMENTS

- A minimum of 25 semester credits (six courses), distributed as follows:
- Three core environmental studies courses: 160, 220, and 330.
 - Any three environmental studies breadth courses, drawn from Biology 141, Chemistry 110, Geology 150, Economics 260, International Affairs 257, Philosophy 215, and Sociology/Anthropology 305.

LOCAL AND OVERSEAS RESEARCH

In collaboration with campus and off-campus partners, the Environmental Studies Program is developing local and overseas sites for student and faculty research, as well as electronic information resources to support in-depth inquiry into environmental problems and solutions. Research may count toward a student's concentration as Environmental Studies 499 (Independent Study). Please consult with Overseas and Off-Campus Programs for details on overseas program destinations, and with the Environmental Studies Program for information on local or overseas research opportunities and application procedures.

INTERNSHIPS

Environmental studies majors are urged to complete one or more practical internships as part of their education. The Portland metropolitan area and the Pacific Northwest offer many opportunities for students to learn by working for federal agencies, environmental organizations, business, city government, and other entities. In addition, students have access to a nationwide database of internship opportunities. Majors pursue internships as a partnership between the Environmental Studies Program, the Center for Career and Community Engagement, and the sponsoring entity, with the goal of providing long-term professional and career development skills to participating students, as well as practical application of the concepts and skills acquired during academic studies.

HONORS

Students who distinguish themselves academically (GPA of 3.5 in the major and overall) are invited to apply to the honors program. Honors candidates work with faculty advisors to develop proposals for research theses, which must be approved by a committee of three environmental studies faculty members. Generally, the thesis will be completed as a part of Environmental Studies 400 (Senior Seminar). Each student prepares a written thesis in draft form, which must then be circulated to the committee no later than the ninth week of the

student's final semester. After the student completes the final version of the thesis and makes a formal oral presentation, the faculty determine whether to grant honors upon graduation.

SPONSORING FACULTY

Charles R. Ault Jr., professor of education.

Barbara A. Balko, associate professor of chemistry.

Donald G. Balmer, U.G. Dubach Professor of Political Science, emeritus.

Stephen Dow Beckham, Dr. Robert B. Pamplin Jr. Professor of History.

Anne K. Bentley, assistant professor of chemistry.

Andrew Bernstein, associate professor of history.

Paulette F. Bierzchudek, William Swindells Sr. Professor of Natural Sciences.

Greta Binford, associate professor of biology.

Kenneth E. Clifton, associate professor of biology.

Bob Mandel, professor of international affairs.

Jay Odenbaugh, associate professor of philosophy.

Bruce M. Podobnik, associate professor of sociology.

James D. Proctor, professor of environmental studies.

Daniel J. Rohlf, associate professor of law.

Elizabeth B. Safran, associate professor of geological science.

Tod Sloan, professor of counseling psychology.

Gregory A. Smith, professor of education.

ENVS 160 INTRODUCTION TO ENVIRONMENTAL STUDIES**Staff**

Content: Scholarly perspectives on environmental problems and solutions, integrating concepts and analytical skills drawn from the natural sciences, social sciences, and humanities. Foundation for all subsequent courses in the environmental studies major. Lectures, faculty and guest presentations, regular online assignments, individual and group research projects.

Prerequisite and/or restriction: Biology 141, Chemistry 110, Economics 100, International Affairs 100, Sociology/Anthropology 100 or 110, or consent of instructor. Enrollment limited to first- and second-year students except by consent of instructor.

Taught: Annually (spring), 4 semester credits.

ENVS 220 ENVIRONMENTAL ANALYSIS**Proctor**

Content: Development of research and analytical skills in environmental studies as preparation for upper-division work by majors and minors. Emphasis on formulation, practice, and communication of research. Skills span full range of allied fields, including descriptive and inferential statistics, geographic information systems, survey and interview techniques, qualitative data analysis, and bibliographic research. Lectures, individual and small-group assignments, and course project. Accompanying lab provides opportunity for students to build analytical skills via real-world research.

Prerequisite and/or restriction: Environmental Studies 160 or consent of instructor. Enrollment preference given to departmental majors fulfilling degree requirements.

Taught: Annually (fall), 5 semester credits.

ENVS 244 PRACTICUM

Staff

Content: Nonclassroom learning experience combining theoretical concepts and skills learned in the classroom with practical work in an on-campus or off-campus setting. Additional readings and written assignments required. Arrangements for the practicum should be made during the semester prior to enrollment.

Prerequisite and/or restriction: Consent of instructor. At least two courses from the core major requirements listed above.

Taught: Each semester, 1-4 semester credits, credit-no credit.

ENVS 330 SITUATING ENVIRONMENTAL PROBLEMS AND SOLUTIONS

Staff

Content: Advanced analysis of environmental problems and solutions, situating them in time, space, and biophysical/human context to provide greater appreciation for their complexity as well as to help devise successful responses. Development of interdisciplinary conceptual and analytical skills via inclusion and integration of topics including environmental change, biophysical and human drivers, related social movements, and environmental politics and policy. Lectures, regular assignments, individual and team research projects, and field trips.

Prerequisite and/or restriction: Environmental Studies 160 and 220, or consent of instructor.

Taught: Annually (spring), 4 semester credits.

ENVS 400 SENIOR SEMINAR

Proctor

Content: An advanced, integrative keystone seminar involving primary research for all senior environmental studies majors. Research theses are based on each student's concentration within the major and include both oral and written components. Students are encouraged to start planning their theses through meetings with the instructor during the previous semester or, preferably, even earlier. Students should have completed all other environmental studies core courses prior to taking this course.

Prerequisite and/or restriction: Environmental Studies 330 and 499. Senior standing or consent of instructor.

Taught: Annually (spring), 4 semester credits.

ENVS 460 TOPICS IN ENVIRONMENTAL LAW AND POLICY

Proctor

Content: Introduction to issues in environmental law and policy. Taught by environmental and natural resources law faculty of Lewis & Clark Law School, the course covers major areas in environmental law. Topics vary and may include water law, the Endangered Species Act, hazardous waste law, environmental justice, environmental law enforcement, the World Trade Organization, public lands law, the Clean Air Act, and the National Environmental Policy Act. Panels discuss careers in law and study of law. A unique opportunity for students interested in careers in environmental law and policy.

Prerequisite and/or restriction: Environmental Studies 160. Junior standing or consent of instructor.

Taught: Alternate years, 3 semester credits.

ENVS 490 TOPICS IN ENVIRONMENTAL STUDIES

Staff

Content: Application of concepts and skills from Environmental Studies 160 and 220 to the understanding of specific environmental issues. Potential topics include biodiversity, climate change, energy, environmental justice, international agreements, land use, natural resource depletion, pollution, sustainability, transportation, and urban sprawl.

Prerequisite and/or restriction: Environmental Studies 160 and 220, or consent of instructor.

Taught: Alternate years, 4 semester credits. May be taken twice for credit if topic is different.

ENVS 499 INDEPENDENT STUDY

Staff

Content: Opportunities for well-prepared students to design and pursue a substantive course of independent learning on an advanced level. Details determined by the student and the supervising instructor. Students should have completed all the environmental studies core courses (except Environmental Studies 400) prior to taking this course.

Prerequisite and/or restriction: Junior standing. Consent of instructor.

Taught: Each semester, 1-4 semester credits.

Ethnic Studies

DIRECTOR: ELLIOTT YOUNG

Ethnic identity is integral to the formation of group consciousness, as it produces common meaning through shared language, religious traditions, and family history. At the same time, colonialism, slavery, and genocide have been intertwined with the construction of racial and ethnic categories. To recognize both the positive and negative aspects of ethnic identity, as well as to heed the significance of transnational migrations in the creation of diasporic identities, the ethnic studies minor focuses on five themes: diaspora, colonialism, slavery, genocide, and community formation. Fostering an interdisciplinary approach that pulls together a variety of historical, social, and cultural perspectives, the curriculum explores the five themes and related topics as they intersect with gender, sexuality, class, and nation.

MINOR REQUIREMENTS

A minimum of 24 semester credits distributed as follows:

- One core course: Sociology 225 or History 330.
- Interdisciplinary capstone course: 400.
- Sixteen elective semester credits, with 8 from the approved Arts and Humanities list and 8 from the approved Social Sciences list. Twelve semester credits must be discrete to the minor and at least one of the elective courses must be at the 300 or 400 level.

The ethnic studies curriculum is organized into the following core courses, capstone course, and elective courses. See appropriate department listings for course descriptions.

Core Courses

Sociology/Anthropology

225 Race and Ethnicity in Global Perspective (Sociology/Anthropology prerequisite may be waived with instructor's consent.)

History

330 Race and Ethnicity in American History