

ENVIRONMENTAL STUDIES

2008-09



UNIVERSITY OF CALIFORNIA, SANTA CRUZ

THE ENVIRONMENTAL STUDIES MAJOR

The environmental studies major prepares students for meaningful lifetime engagement with the major environmental challenges facing society. Students pursue an interdisciplinary curriculum that combines course work in ecology and the social sciences. The program emphasizes the integration of ecological knowledge with an understanding of social institutions and policies in ways that support the conservation of biodiversity, the practice of sustainable agriculture, and the careful management of other ecological and environmental systems.

STUDY AND RESEARCH OPPORTUNITIES

- ◆ B.A. in environmental studies
- ◆ Combined B.A. majors available in environmental studies/biology, environmental studies/Earth sciences, and environmental studies/economics
- ◆ Ph.D.
- ◆ As a complement to classroom instruction and research, many courses have field components. In addition, students are encouraged to participate in faculty-directed research on specific problems. The Environmental Studies Internship Program offers a variety of opportunities for internship placements.

HIGH SCHOOL PREPARATION

High school students who plan to major in environmental studies need no special preparation other than the courses required for UC admission. AP scores for calculus may apply to the prerequisites.

TRANSFER PREPARATION

Students transferring to UC Santa Cruz are expected to fulfill the prerequisites for the major (see *Prerequisites for the Single Major* section on the reverse) by completing equivalent courses, with a grade of C or better, at another recognized institution before transferring to UC Santa Cruz. The prerequisite in the physical and chemical environment (Environmental Studies 23, *The Physical and Chemical Environment*) may be satisfied by completing a college-level introductory chemistry course. Two courses—one in politics, one in economics—are required to satisfy the political economy and the environment (Environmental Studies 25, *Political Economy and the Environment*) prerequisite. Environmental Studies 25 may be offered during Summer Session at UC Santa Cruz and transfer students are encouraged to take it. Those students attending an institution not offering an acceptable general ecology course are urged to enroll in Summer Session at UC Santa Cruz to complete this prerequisite (Environmental Studies 24, *General Ecology*); those not able to do so are allowed to take the course concurrently with Environmental Studies 100/L, *Ecology and Society*, in fall

quarter. Similarly, Applied Math and Statistics 7/L, *Statistical Methods for the Biological and Environmental Sciences Laboratory*, must be completed at UCSC; no alternative biostatistics courses will fulfill this requirement as of fall 2006. Transfer students may complete this course during the UCSC Summer Session, or take the course concurrently with Environmental Studies 100/L, *Ecology and Society*, in fall quarter.

While it is not a condition of admission, students from California community colleges may complete the Intersegmental General Education Transfer Curriculum (IGETC) in preparation for transfer to UC Santa Cruz. However, the environmental studies major and combined majors require additional courses in preparation for the major (see *Prerequisites for the Single Major* section on the reverse.)

Transfer course agreements and articulation between the University of California and California community colleges can be accessed on the ASSIST web site at:

www.assist.org

RECOGNITION

Associate Professor of Environmental Studies Weixin Cheng secured a major research grant from the U.S. Department of Agriculture to build a continuous isotopic labeling facility for deciphering the complex processes occurring at the root-soil interface, or rhizosphere.

Professor of Environmental Studies Alan Richards recently presented his views and research on terrorism and U.S. policy on a number of occasions, including invited testimony before the U.S. Senate Foreign Relations Committee.

Assistant Professor of Environmental Studies Erika Zavaleta received a prestigious grant from the Andrew W. Mellon Foundation to investigate the ecological impacts of the loss of plant species in California ecosystems.

Associate Professor of Environmental Studies Brent Haddad directs a \$2.6 million project to help communities assess the viability of desalinizing ocean water in California.

CAREERS

Environmental consulting	Land use research/
Environmental impact assessment	management
Sustainable development	Science education
Environmental law	Restoration ecology
Environmental policy/	Conservation biology
research	research
Government	Agroecology
Journalism	Integrated pest
Environmental/science education	management
Natural resource ecology/conservation	Environmental advocacy
Parks/natural reserve management	Sustainable agriculture

These are only samples of the field's many possibilities.

STUDENT SCHOLARSHIPS AND AWARDS

The Environmental Studies Department is proud to offer undergraduates the opportunity to earn awards and scholarships for their achievements. Each year several awards become available and are open to all undergraduate students or environmental studies majors.

For further information about scholarships and awards offered through Environmental Studies, contact Oriana Hair, 405 Interdisciplinary Sciences Building, (831) 459-2634, oriana@ucsc.edu.

ENVIRONMENTAL STUDIES INTERNSHIP PROGRAM

Open to all UC Santa Cruz students, the Environmental Studies Internship Program is an integral academic component of the environmental studies major, and it augments the research and professional development of undergraduate and graduate students. Further information is available from the Environmental Studies Internship Program Office, 491 Interdisciplinary Sciences Building, (831) 459-2104, esintern@ucsc.edu, envs.ucsc.edu/internships.

PREREQUISITES FOR THE SINGLE MAJOR

Continuing UC Santa Cruz students are required to complete six prerequisite courses. Environmental Studies 23, *The Physical and Chemical Environment*; Environmental Studies 24, *General Ecology*; Environmental Studies 25, *Political Economy and the Environment*;

Applied Mathematics and Statistics (AMS) 7/L (statistics); Cultural Anthropology/Sociology/Ethics; and Precalculus–AMS 3, are to be completed before taking Environmental Studies 100/L, *Ecology and Society*, which is the core course. The specific prerequisites are listed below. See course descriptions in the *UC Santa Cruz General Catalog* online for more specific information.

Environmental Studies 23: *The Physical and Chemical Environment*. Students completing a combined or double major with biology or Earth sciences may substitute general chemistry by completing Chemistry 1A (*General Chemistry*). Offered in spring quarter.

Environmental Studies 24: *General Ecology*. Offered in fall quarter or Summer Session.

Environmental Studies 25: *Political Economy and the Environment*. Offered in winter quarter or Summer Session.

Statistics. Course in either Applied Math and Statistics (AMS) 7/L or Economics 113, *Introduction to Econometrics* (for combined majors with economics ONLY).

Cultural Anthropology/Sociology/Ethics. One course from the following list:

- Anthropology 2, *Introduction to Cultural Anthropology*
- Sociology 1, *Introduction to Sociology*
- Sociology 15, *World Society*
- Philosophy 21, *Wilderness Studies*
- Philosophy 22, *Introduction to Ethical Theory*
- Philosophy 24, *Introduction to Ethics: Contemporary Moral Issues*
- Philosophy 28, *Environmental Ethics*
- Philosophy 80G, *Bioethics in the 21st Century: Science, Business, and Society*

Precalculus. Applied Math & Statistics 3 or a score of 31 or higher on the Math placement exam, or a score of 3 or higher on the College Board AP calculus exam (either AB or BC).

FOR MORE INFORMATION

For further information about the environmental studies major, the combined major prerequisites, and upper-division requirements, see:

reg.ucsc.edu/catalog/html/programs_courses/envsPS.html

The Environmental Studies Department web site, which includes the Environmental Studies Undergraduate Handbook, can be found at:

envs.ucsc.edu/undergraduate

If you have other questions, contact:
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