



ENVIRONMENTAL STUDIES

The curriculum in environmental studies is designed to achieve a broad understanding of the social, ethical, technological, and scientific aspects of environmental problems in an experiential setting. Practical application projects focus on community and global issues. The program is conceived as a contemporary development of the liberal arts tradition in which natural science has an important, but not dominating role. Students will develop the creative imagination, precision of feeling, and clarity of thought required to contribute to the solution of the social, ethical, and technical problems that increasingly threaten the welfare of the natural environment.

Core courses provide a survey and history of environmental issues and problems, a grounding in basic principles of ecology, and field experience in both natural and human environments. In upper level work students continue to explore the nature of the relationship between humans and the natural world and they use the science and technical skills they have acquired to examine community, regional, and global issues. A rigorous senior research project provides experience in oral and written communication tailored to the student's area of professional interest. Additional course work is selected from relevant disciplines. Opportunities are provided for independent study courses with faculty who specialize in the student's area of interest.

CAREER OPTIONS

Environmental studies majors and minors plan their programs in close collaboration with faculty advisors. Because many careers in environmental fields require intensive preparation in a traditional major, some students may find it advisable to consider a double major or minor in a related discipline. Three concentrations are offered in the environmental studies program (one each in humanities, social sciences, and natural sciences). However, students with special interests may develop individual programs of study in collaboration with advisors from appropriate disciplines. Depending on their program of study, upon graduation students may choose to pursue graduate work in ecology, environmental law, politics, or another area, or to enter into the workforce as a professional.

Required Courses:

ENG 185	Writing about Literature and the Environment
ENV 101	Visions of Humanity, Visions of Nature
ENV 201	Introduction to Environmental Science
ENV 204	Environmental Policy
ENV 213	Natural History (for Social Systems and Ecological Perspectives)
BIO 314	Ecology (for Natural and Sustainable Systems)
ENV 355	Internship
ENV 399	Senior Project

In addition to the requirements above, one of the following concentrations must be completed:

Concentrations in Natural and Sustainable Systems (BS) Required Courses:

BIO 101	General Biology I
BIO 102	General Biology II
CHM 103	Fundamentals of General Chemistry
CHM 104	Fundamentals of Organic Chemistry
ENV 215	Environmental Impact Assessment

Three of the following, one from category A, one from category B, and one from either category*

CATEGORY A

BIO 206	Invertebrate Zoology
BIO 210	Botany
BIO 309	Evolution
ENV 216/316	Agro ecology

CATEGORY B

ENV 217	Environmental Stewardship
SOC 310	Environmentally Sustainable Communities
REL/ENV 220	Environmental Ethics
ENV 301	Ecological Perspectives in the Sciences and Humanities

Concentration in Social Systems (BA) Required Courses*

ENV 203	Science, Technology, and Society
PS 110	Introduction to Political Science
Or	
PS 120	American Government
SOC 120	Introduction to Sociology
SOC 234	Conflict Resolution
SOC 310	Environmentally Sustainable Communities

Three of the following from at least two disciplines:

ECO 101	Introduction to Macroeconomics
ECO 102	Introduction to Microeconomics
ECO 362	Problems of Developing Countries
ENV 210/310	Environmental History
ENV 215	Environmental Impact Assessment
ENV 217	Environmental Stewardship
ENV 301	Environmental Perspectives in the Sciences and in the Humanities
PS 216	Public Policy
PS 221/321	Women in Global Perspective
RLS 220	Environmental Ethics
SOC 227/327	Environmental Sociology
WS 222	Introduction to Feminist Perspectives

***Some courses have prerequisites that need to be satisfied.**

Concentration in Ecological Perspectives (BA)* Required Courses:

ENG 213	American Literature I
Or	
ENG 214	American Literature II
ENV 203	Science, Technology, and Society
Or	
ENV 217	Environmental Stewardship
ENV 210/310	Environmental History
ENV 301	Ecological Perspectives in the Sciences and in the Humanities
RLS 108	Religions of the World
RLS 210/310	Science and Religion
ENV 220/RLS 220	Environmental Ethics
WS 222	Introduction to Feminist Perspectives

***Some courses have prerequisites that need to be satisfied prior to enrollment.**

Environmental Education

In addition to the above, elementary certification with endorsement in environmental education or secondary certification in Environmental Education is available (see entry under "Elementary Education and Programs in Education.")

Minor in Environmental Studies

ENV 101	Visions of Humanity, Visions of Nature
ENV 201	Introduction to Environmental Science
ENV 204	Environmental Policy
ENV 213	Natural History

Two electives chosen in consultation with the chair

And

One of the following:

ENV 301	Ecological Perspectives in the Sciences and in the Humanities
ENV 370	Topics in Environmental Studies
ENV 399	Senior Project

The Center for Sustainable Living (CSL)

The curriculum in environmental studies is coordinated with the Center for Sustainable Living. The center provides settings in which people committed to the creation of a more just and sustainable world can come together to think, work, experiment, and create. It is founded on the belief that careful sustained attention to our enveloping natural and cultural worlds in all their complexity, beauty, and variety provides the basis for deep understanding and engagement, and that questions of right action and right livelihood are connected with questions of the state of our soul, the state of society, and the state of the earth.

The CSL focuses on four areas of sustainability: food issues, energy, water, and shelter. To date, the major emphasis has been on food issues. Adoption of the Community Supported Agriculture (CSA) model as a means of addressing issues of healthy food, land stewardship and tenure social justice, and bioregional food security has proven an overwhelming success. The CSL is a major contributor, on a national scale, to the development and promotion of sustainable agriculture and CSAs. Our own Wilson College CSA provides employment for students, supports over 50 percent of our budget, and contributes food to the College Dining Hall and local food kitchen.

The CSL has begun the process of developing a sustainable building. Components will be used to demonstrate renewable energy, nutrient recycling, healthy interior, natural lighting, indigenous materials, and other key sustainable design criteria.

The CSL is located adjacent to the campus on a 100-acre historic farm and woodland with views of the surrounding Cumberland Valley. A variety of habitats provide a background for restorative and sustainable land use projects as well as for field studies in the natural sciences.

Through classes, research opportunities, workshops, and conferences, the CSL will highlight a variety of models for environmentally sound practices, in agriculture, home, ecology, and spiritual and community life. A summer internship provides students with the practical experience they will need to help make the ideals of sustainable living a reality in the 21st century.

SPECIAL FEATURES

- Volunteer and work-study positions on the Fulton farm – a sustainable organic farm located on campus.
- Study native ecosystems on campus by working on the Interpretive Trail and investigating existing and re-created wetlands. The Conococheague Creek, which winds through campus, is used by several classes as an outdoor laboratory. This unique ecosystem's headwater is eight miles west of campus and flows into the Potomac River.
- Work on grant funded projects such as the Sustainable Energy Fund project. Along with the Fulton Center for Sustainable Living, we are developing wind and solar energy. Biodiesel energy is already being harnessed at the Farm.
- Experiential learning in several classes guided by highly experienced professors. Examples include:
 - Environmental Impact Assessment/Land Use Plan
 - Environmental History of Chambersburg, PA
 - Chambersburg Street Tree Plan (Tree Inventory and Plan)
 - Cost of Community Service Study
 - Urban Growth Boundary Study
- Internship experiences as well as senior projects. These can lead to jobs upon graduation or help you to decide on a graduate program. Recent internships included:
 - Council for Environmental Quality, Environmental Impact Policy Researcher, Hartford, CT
 - Constitution March (Audubon Sanctuary), Naturalist – Cold Springs, NY
 - Franklin County Cooperative Extension, Horticulture Program Research Assistant, Franklin County, PA
 - Wilson College Fulton Farm, Biodiversity Coordinator – Chambersburg, PA
- Supervised Independent Studies that meet your specific interests. Recent examples include:
 - Natural Swimming Pools/Wetlands
 - Sustainable Energy
- Our students have a wide array of interest, from Environmental regulations, Politics, Education and Journalism, to Ecology and Horticulture.

Secondary Education Certification in Environmental Studies

Normally, this is sought as a second area of certification for students desiring to teach at the high school level. This certification requires BIO 101, 102, 314 and 230; CHM 103,104; ENG 185; PS 216; RLS 220; and ENV 201, 203, 204 and 217.

The following courses are required for Secondary Education Certification:

EDU 201	Foundations of American Education
EDU 206	Educational Psychology
EDU 215	Managing the Inclusive Classroom
EDU 222	Teaching in Secondary Schools
EDU 228	Pre-Practicum
EDU 310	Technology for Educators
EDU 326	Student Teaching Practicum
EDU 319-325	The appropriate Practicum Seminar
PSY 110	Introduction to Psychology

One course in English literature

Two college level mathematics courses

NOTE: Students must maintain a cumulative 3.0 for certification.