Environmental Studies

The major in environmental studies must be coordinated with a separate major in a traditional discipline. This traditional discipline is the primary major, which determines whether a student earns a B.A. or a B.S. degree. The environmental studies major is interdisciplinary, seeking to inform students of the scientific, political, economic, social, historical, and cultural dimensions of ecological issues.

The environmental studies curriculum has core areas in which courses must be taken. Though a number of courses within each core are required of all students, other courses satisfying the core requirements, as well as electives, are selected in consultation with the advisor. Students choose between two tracks, environmental science or environmental policy. Students must complete all courses in each major for a total of at least 18 different courses in the two majors.

ENVIRONMENTAL SCIENCE

The Environmental Science Track (ENSS) consists of 13 courses, eight from science and five from social science and humanities.

Michael Zimmerman, Philosophy

COORDINATE MAJOR

All of the following:

CHEM 107/117 General Chemistry I
CHEM 108/118 General Chemistry II
CHEM 241/243 and CHEM 242/244 Organic Chemistry I & II

or CHEM 250 Environmental Chemistry

EBIO 101/111 Diversity of Life
EBIO 404/414 General Ecology

Physical Science

Two of the following:

EENS 111 Physical Geology
EENS 120 Earth Systems
EENS 202 Environmental Geology
EENS 204 Natural Disasters
EENS 207 Weather and Climate
PHYS 121& 122 Introductory Physics I & II
or PHYS 131& 132 General Physics I & II

**Natural Science Elective**
One of the following:
- EENS 204 Conservation of Biological Diversity
- EBIO 205 Global Change Biology
- EBIO 406 Stream Ecology
- EBIO 420 Ornithology

See ENST advisor for additional offerings

**Social Science**
Both of the following:
- ECON 101 Introduction to Microeconomics
- ECON 333 Environment and Natural Resources

**Public Policy and Regulation**
One of the following:

*(Social Science)*
- POLA 423 Environmental Politics
- POLA 480 Science, Technology, and Public Policy
- POLI 462 Global International Environmental Politics

*(Science)*
- EBIO 260 Natural Resource Conservation Theory and Practice
- EBIO 360 Forestry and Policy

**Social Science and/or Humanities**
Two of the following:

*(Humanities)*
- COLQ H301 Science and Human Values
- COLQ 412 Grand Canyon

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**ENVIRONMENTAL POLICY**
The Environmental Policy Track (ENSP) consists of 13 courses, five from the math/science and eight from social science and humanities.

**Mathematics**
One of the following:
- MATH 111 Introduction to Probability and Statistics
- MATH 121/131 Calculus

**Science**
Four of the following; two at the 200 level or above
- CHEM 107/117 General Chemistry I
- CHEM 108/118 General Chemistry II
- CHEM 250 Environmental Chemistry
- EENS 202 Environmental Geology
- EENS 223 Oceanography

**Social Science**
- ECON 101 Introduction to Microeconomics
- ECON 333 Environment and Natural Resources

**Public Policy and Regulation**
- POLA 423 Environmental Politics
- POLA 480 Science, Technology, and Public Policy
- POLI 462 Global International Environmental Politics

**Social Science and/or Humanities**
- COLQ H301 Science and Human Values
- COLQ 412 Grand Canyon

See ENST advisor for additional offerings.
EBIO 101/111 Diversity of Life
EBIO 204 Conservation of Biological Diversity
See ENST advisor for additional offerings.

Social Science
Both of the following:
ECON 101 Introduction to Microeconomics
ECON 333 Environment and Natural Resources

Public Policy, Political Economy, and Regulation
Four of the following:
(Science)
EBIO 260 Natural Resource Conservation Theory and Practice
EBIO 360 Forestry and Policy
(Social Science)
ENST 456, 457 Internship
PECN 304 Economics and Policy Making
POLA 423 Environmental Politics
POLA 480 Science, Technology, and Public Policy
POLI 462 Global Environmental Politics

Social Science and/or Humanities
Two of the following:
(Humanities)
COLQ H301 Science and Human Values
COLQ 412 Grand Canyon
COMM 351 Environmental Communications
ENLS 486 Nature Writing: American Nature/American Culture
PHIL 334 Humanity’s Place in Nature
PHIL 652 Environmental Ethics
(Social Science)
ANTH 370 Ecological Anthropology

SOCI 160 Environmental Sociology
(ENST 377 Mississippi River Basin Colloquium may be substituted for a course in the Social Science and/or Humanities group).
See ENST advisor for additional offerings.

ENVIRONMENTAL STUDIES MINOR (18+ CREDITS)
One of the following:
EBIO 101/111 Diversity of Life
EBIO 104 Global Environmental Change
EBIO 204 Conservation of Biological Diversity
EBIO 404 General Ecology (lecture only)
EENS 120 Earth Systems
Both of the following:
ECON 101
ECON 333
Three of the following:
One environmental science course
Two environmental social science or humanities course

COURSES
ENST 360 Forestry, Forested Ecosystems, and Public Policy (3)
Staff. Prerequisites: EBIO 101 or approval of instructor. This course introduces the practice of forestry and forest management techniques common in the U.S. South, examines forestry’s positive and negative environmental impacts, and presents the Federal, State, and local laws and policies that affect the management of forests in the United States. Students will be expected to integrate what they know about biology with what they learn about forestry and public policy. Students may not apply this course and EBIO 260 toward the major. Same as EBIO 360.

ENST 377 Mississippi River Colloquium (4)
Staff. Interdisciplinary course dealing with the Mississippi River Basin. The goal is to give students a broad overview of the important social and environmental issues surrounding the river. Same as EBIO 377.
ENST 378 Integral Ecology (3)
Prof. McLachlan, Prof. Zimmerman. This course seeks to provide students with a framework for integrating the organic, ecosystemic, organizational, economic, social, cultural, and individual dimensions of ecological problems. After studying the framework itself, students will utilize it to examine major environmental problems, such as hormone disruptors, urban lead pollution, and introduced species.

ENST 388 Writing Practicum (1)
Staff. Corequisite: three-credit departmental course. Prerequisite: successful completion of the First-Year Writing Requirement. Fulfills the college intensive-writing requirement.

ENST 401 Special Projects (1-3)
Staff. Prerequisite: eight courses in Environmental Studies, usually four from each core. Open to qualified juniors and seniors. Individual studies on an environmental problem.

ENST 456, 457 Internship Studies (3, 3)
Staff. Prerequisites: approval of instructor and Program Director. An experiential learning process coupled with pertinent academic course work. Open only to juniors and seniors in good standing. Registration is completed in the academic department sponsoring the internship on TUTOR. (Note: A maximum of six credits may be earned in one or two courses.)

ENST 481, 482 Special Topics (3, 3)
Staff. Courses offered by visiting professors or permanent faculty. For description, consult department.

ENST 491, 492 Independent Studies (3, 3)
Staff. Independent studies in the field of environmental studies.

ENST H499-H500 Honors Thesis (3, 4)
Staff. For especially qualified juniors and seniors with approval of department and the Honors Committee.