

# The School of Science and Engineering

## Environmental Studies

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### Program Administrator

*George C. Flowers*, Earth & Environmental Sciences (Director)

### Faculty Associates

*William S. Balée*, Anthropology

*Henry L. Bart*, Ecology and Evolutionary Biology

*Jeffrey Chambers*, Ecology and Evolutionary Biology

*Lee Dyer*, Ecology and Evolutionary Biology

*George C. Flowers*, Earth and Environmental Sciences

*Bruce Fleury*, Ecology and Evolutionary Biology

*Scott Frickel*, Sociology

*Dianne Glave*, Environmental Studies

*David C. Heins*, Ecology and Evolutionary Biology

*Duncan Irschick*, Ecology and Evolutionary Biology

*Christian Lanpap*, Economics

*Franco Marcantonio*, Earth and Environmental Sciences

*John McLachlan*, Weatherhead Distinguished Professor of Environmental Studies

*Eean McNaughton*, Architecture

*Gary L. McPherson*, Chemistry

*Doug Meffert*, Center for Bioenvironmental Research

*Molly A. Rothenberg*, English

*Thomas W. Sherry*, Ecology and Evolutionary Biology

*Teresa Toulouse*, English

*Michael Zimmerman*, Philosophy

## COORDINATE MAJOR

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.

### Natural Science

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

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  
 (One of the following may be substituted for a course in the Social Science and/or Humanities group).  
 ENST 377 Mississippi River Basin Colloquium ENST 401 Special Project  
 ENST 456, 457 Internship  
 ENST 491, 492 Independent Studies  
 ENST 499, 500 Honors Thesis  
*See ENST advisor for additional offerings.*

### **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

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.