

## Environmental Studies

self-motivated writers who wish to develop voice, fluency and precision.

Prerequisite: 252 or 253 or 300 or consent of the instructor based on examination of portfolio

### **403 Analytical and Persuasive Writing**

Intended for the experienced writer, this course will emphasize the theory and practice of writing in analytical, persuasive and research-based rhetorical modes as preparation for advanced or professional writing in a variety of disciplines.

Prerequisite: 252 or 300 or 402 or consent of instructor based on examination of portfolio.

### **480 Literary Magazine Practicum (formerly 484)**

Participants in this course will study the history and character of literary magazines and apply their knowledge to editing the College's literary and visual-arts magazine. Responsibilities include gathering and selection of material, design, copyediting, layout, proofreading, and communication with typesetters, printers, and other editors.

Prerequisite: permission of the instructor and the department chair (arrange in early fall for course credit in spring semester)

### **475, 476, 477, 478 Experiential Learning**

See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

### **483, 484, Seminar**

See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

### **485, 486 Senior Seminar**

A seminar focused on the study of an issue or problem of literary significance. Through discussion and intensive reading, the seminar will consider common texts pertinent to an English major's whole curriculum. Each student will execute and present a substantial critical or interpretive essay.

Prerequisite: completion of five English courses beyond the freshman level; or, for nonmajors, permission of the instructor and the department chair.

### **487, 488, 489, 490 Topics**

The subject matter of these courses, announced in the annual *Class Schedule*, will vary from year to year, but will not duplicate existing courses. See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

Prerequisites: 111 and 112 or 190

### **491, 492, 493, 494 Research**

See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

### **495, 496, 497, 498 Individual Study**

See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

Prerequisites: 111 and 112 or 190

## **Entrepreneurship**

*See Division of Business.*

## **Environmental Studies (ENVR)**

Hoffman (POL), director; Governance Committee: Brownstein (GEOL), Degan (PHIL), Evarts (BIOL), Longley (CHEM), Lorah (GEOG), Neuzil (JOMC), Sathe (ACCT), Smith-Cunniën (SOC), Vincent (ECON), Werner (GEOG)

Environmental problems are at once particular and complex. Global warming, desertification and deforestation are problems that require not only an understanding of the natural sciences but also the ability to address questions ranging from ethics to economics to politics and geography.

The Environmental Studies program provides students with a broad interdisciplinary background as well as a basis for career specialization and practical application and problem solving. The program is predicated upon an investigation both of the Earth's environment and the wide variety of human interactions with that environment. The program has three basic objectives:

- 1) to transmit an understanding of environmental problems and their complexities,
- 2) to motivate productive responses to those problems, both vocational and avocational, based on that understanding, and
- 3) to foster the development of critical, inquiring minds.

All students majoring in environmental studies are required to take 36 credits in core courses, another 24 credits in concentration-area courses, and four credits in an allied course. The core courses are

## Environmental Studies

designed to provide the student with a foundation in the physical, social and ethical dimensions of environmental issues.

The concentration area consists of a minimum of an additional 24 credits beyond the core. These courses are meant to deepen the student's understanding of the origin and complexity of environmental issues while focusing attention on one particular area of study.

The student may

- (a) choose to specialize in an existing area of study or
- (b) may propose an individually designed concentration program.

In either case, students are required to submit a Concentration Area Proposal to the Governance Committee for approval. The proposal will identify the prospective concentration area, a set of learning objectives, and the concentration area's relationship to the student's environmental interests.

Students are strongly encouraged to discuss the formation of their concentration area with the director of the program or another member of the Governance Committee. Committee members can assist students in constructing successful concentration area proposals.

Students are required to identify their concentration area by the end of their sophomore year or the first semester of their junior year.

Students are encouraged, but not required, to take additional courses in writing and computer applications, and should consult the chair of the Environmental Studies Committee for recommendations.

### Major in Environmental Studies: Concentration Area in the Natural Sciences

ENVR 151 Humans and the Environment  
ENVR 212 Social Dynamics and the Environment  
ENVR 301 Environmental Ethics  
ENVR 351 Environmental Policy Formation  
ENVR 401 Field Seminar  
GEOL 111 Introductory Geology

*Plus one of:*

BIOL 102 Conservation Biology  
BIOL 201 Diversity and Adaptation

*Plus either:*

CHEM 101 Environmental Chemistry

*or*

CHEM 111 General Chemistry I

*and*

CHEM 112 General Chemistry II

*Plus one of:*

BLAW 368 Environmental Law  
ECON 252 Principles of Microeconomics  
POL 205 Introduction to the American Public Policy Process

*Plus one of:*

MATH 303 Statistics for the Applied Sciences  
QMCS 220 Statistics I

*Plus:*

Concentration area in one of the natural sciences

### Major in Environmental Studies: Concentration Area in Social Science, Business, or Humanities

ENVR 151 Humans and the Environment  
ENVR 212 Social Dynamics and the Environment  
ENVR 301 Environmental Ethics  
ENVR 351 Environmental Policy Formation  
ENVR 401 Field Seminar

*Plus one of the three sequences below:*

BIOL 102 Conservation Biology  
CHEM 101 Environmental Chemistry  
GEOL 111 Introductory Geology I  
GEOL 112 Introductory Geology II

*or*

BIOL 201 Diversity and Adaptation  
BIOL 202 Genetics and Population Biology  
CHEM 101 Environmental Chemistry

GEOL 111 Introductory Geology I  
*or*  
BIOL 102 Conservation Biology  
CHEM 111 General Chemistry I  
CHEM 112 General Chemistry II  
GEOL 111 Introductory Geology I

*Plus one of:*

MATH 303 Statistics for the Applied Sciences  
QMCS 220 Statistics I

*Plus:*

Concentration area in one of the social sciences, business, or humanities

**Minor in Environmental Studies**

151 Humans and the Environment  
212 Social Dynamics of the Environment  
301 Environmental Ethics  
351 Environmental Policy Formation

*Plus:*

Four credits to be chosen from a list of approved courses, available from the director of the program.

**151 Humans and the Environment**

A study of the interaction of humans and the environment over time and space; a broad introduction that integrates a variety of social-science perspectives into an understanding of the environment and the relations between humans and nature. Specific topics include ecology, population, economic development, resources and sustainable development. This course fulfills the second-level Computer Competency requirement in the core curriculum.

**212 Social Dynamics and the Environment**

An emphasis on the ways in which people have created, and attempted to solve, environmental problems in different cultural and historical contexts. Examines the roles of the entire spectrum of actors and human communities, including individuals, families, groups and formal organizations, neighborhoods, cities and nations. Students examine how individual dynamics (such as altruism and economic self-interest) and collective dynamics (such as competition, cohesion, social definitional processes and global interdependence) direct humans in their interactions with the environment.

Prerequisite: 151

**295, 296, 297, 298 Topics**

The subject matter of these courses, announced in the annual *Class Schedule*, will vary from year to year, but will not duplicate existing courses. See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

**301 Environmental Ethics (PHIL 358)**

Consideration of the ethical issues arising from human interaction with the environment, including population pressure, pollution, conservation and preservation. Focus on the grounds of our obligation to resolve such issues; the question of what persons and things are worthy of moral consideration; and the respective roles of individuals, organizations and government in addressing environmental problems. Case studies will be used to trace the implications of various ethical and political theories.

Prerequisite: 151 and PHIL 214

**351 Environmental Policy Formation**

An examination of environmental policy outcomes generated by institutions and organizations, including legislation, court decisions and administrative decisions. Additional focus on decision-making processes commonly used to assess environment-related legislation, including those rooted in economics and policy analysis.

Prerequisite: 212

**401 Field Seminar**

A capstone course that combines field experience with classroom seminar. Student teams will conduct collaborative, broadly interdisciplinary analyses of selected environmental problems. Field-based projects are chosen by the students in consultation with course instructor. Classroom seminars are used for exchange of information between teams and for discussion of readings pertinent to individual research projects or, more broadly, to the interdisciplinary character of environmental problem-solving. Each team produces a major paper that examines ethical and natural- and social-science aspects of the selected problems.

Prerequisite: 301, 312 and 351 or permission of the instructor

## Family Studies

### 475, 476, 477, 478 Experiential Learning

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## Family Studies (FAST)

Grochowski (H&HP), director

Family Studies is an interdisciplinary field of study in which the family is the primary unit of analysis. The purpose of this minor is to enable students to critically examine the family using a variety of theories and methods. Family Studies scholars can develop understanding of business and communication dynamics, health and social concerns, and psychological and theological matters affecting families and their members. A family studies minor is flexible and multidisciplinary, providing for both broad exposure and disciplinary integration. This minor provides preparation for advanced study in family studies and the allied fields, as well as professional work in organizations focusing on families.

No more than eight credits may be taken from a single major field. Students interested in a minor in Family Studies should meet with the director.

### Minor in Family Studies

400 Family Studies Seminar

*Plus one of:*

PSY 288 Psychology of Marriage and the Family  
SOC 321 Marriage and the Family

*Plus three of:*

COMM 425 Family Communication  
ENTR 349 Family Business Management  
FAST 495, 496 Individual Study (2 credits)  
FAST 497, 498 Individual Study  
HLTH 462 Human Sexuality Education  
PSY 204 The Psychology of Adulthood and Aging  
PSY 288 Psychology of Marriage and the Family  
SOWK 210 Relationship, Intimacy, and Sexuality  
SOC 303 Aging and the Lifecourse  
SOC 321 Marriage and the Family  
THEO 307 Human Sexuality: A Christian Perspective  
THEO 315 Christian Marriage

### 295, 296, 297, 298 Topics

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### 400 Seminar in Family Studies

This advanced capstone course for the Family Studies minor is a multidisciplinary seminar taken after the learner has completed at least four courses in the Family Studies minor. The course will incorporate a variety of methods, theories, and pedagogies drawn from the family studies paradigm. A substantial portion of the course will be devoted to student research and presentations that incorporate family studies scholarship.

Prerequisite: PSY 288 or SOC 321 and three other courses from the list of approved courses for the minor.