

Contact: Jerry Smosky, Ph.D.

(413) 662-5496, J.Smosky@mcla.edu

# ENVIRONMENTAL STUDIES

## PROGRAMS AVAILABLE

### BACHELOR OF ARTS IN ENVIRONMENTAL STUDIES ENVIRONMENTAL STUDIES MINOR

#### ENVIRONMENTAL STUDIES MAJOR PROGRAM

The Environmental Studies major at MCLA is a multidisciplinary program housed within the Biology Department. Environmental Studies majors study human activities and their effects on natural systems through coursework, fieldwork, research, and internships. The complexity and interdisciplinary nature of environmental problems requires that students be provided with a solid foundation in the natural sciences as well as the social sciences. Environmental Studies students therefore take courses in departments and disciplines including Biology, Chemistry, Geology, Economics, and Sociology. Partnerships with local environmental organizations and agencies provide students with opportunities to gain experience investigating and developing solutions to environmental problems of regional significance. Students graduating with a degree in Environmental Studies will be able to:

- C use classical skills such as critical thinking, research, speaking, and writing as they apply to contemporary environmental issues
- C use particular technologies necessary for modern professionals in the sciences, social sciences, and humanities
- C quickly assess environmental problems and work effectively in a team to suggest realistic solutions
- C enter either the professional world or graduate school with broad understanding, specific skills and significant experience in environmental studies.

#### Foundation Courses

BIOL 150	Foundations of Biology	4 cr
BIOL 235	Botany	4 cr
	or BIOL 245 Zoology	
CHEM 150	Introduction to Chemistry I	4 cr
CHEM 152	Introduction to Chemistry II	4 cr
ENVI 101	Introduction to Environmental Studies	4 cr
ENVI 315	Environmental Economics	3 cr
GEOG 151	Introduction to Physical Geography	4 cr
GEOG 152	Introduction to Physical Geology	<u>3-4 cr</u>
	or GEOG 270 Weather and Climate	

**TOTAL FOUNDATION COURSES 30-31**

#### Requirements

Foundation Courses		30-31 cr
ENVI 210	Environmental Law	3 cr
ENVI 310	Politics and Environmental Policy	3 cr
ENVI 320	Methods in Environmental Research	4 cr
ENVI 401	Independent Research	3 cr
or ENVI 540	Internship	

Choose two courses from each of the following categories:

<b>Biology</b>		6-8 cr
BIOL 255	Biodiversity	
BIOL 320	Microbiology	
BIOL 324	Marine Biology	
BIOL 345	Vertebrate Natural History	
BIOL 371	Forest Environment	
BIOL 460	Ecology	

<b>Physical Science</b>		6-8 cr
CCST 230	Energy and the Environment	
GEOG 245	Natural Hazards	
GEOG 300	Topics in Physical Geography	
GEOG 360	Environmental Geology	
GEOG 370	River Systems	
GEOG 380	Aerial Photography & Remote Sensing	

<b>Society</b>		<u>6 cr</u>
ART 311	Art History and American Landscapes	
CCHH 224	The Nuclear Age	
ENGL 374	Literature and the Environment	
PSYC 320	Ergonomics and the Environment	
PSYC 325	Environmental Psychology	
SOCI 322	Population	
GEOG 135	Travel and Tourism	

**TOTAL ENVIRONMENTAL STUDIES  
MAJOR REQUIREMENTS 61-66**

# ENVIRONMENTAL STUDIES

Contact: Jerry Smosky, Ph.D.

(413) 662-5496, J.Smosky@mcla.edu

## ENVIRONMENT STUDIES MINOR PROGRAM

### Requirements

ENVI 101	Introduction to Environmental Studies	4 cr
BIOL 150	Foundations of Biology	4 cr
or CHEM 150	Introduction to Chemistry I	
or GEOG 151	Introduction to Physical Geography	
or GEOG 152	Introduction to Physical Geology	
ENVI 210	Environmental Law	3 cr
ENVI 310	Politics and Environmental Policy	3 cr
ENVI 320	Methods in Environmental Research	4 cr

Choose one course from either of the following categories: 3-4 cr

### Biology

BIOL 255	Biodiversity
BIOL 320	Microbiology
BIOL 324	Marine Biology
BIOL 345	Vertebrate Natural History
BIOL 371	Forest Environment
BIOL 460	Ecology

### Physical Science

CCST 230	Energy and the Environment
GEOG 245	Natural Hazards
GEOG 300	Topics in Physical Geography
GEOG 360	Environmental Geology
GEOG 370	River Systems
GEOG 380	Aerial Photography & Remote Sensing

### Society

ART 311	Art History and American Landscapes
CCHH 224	The Nuclear Age
ENGL 374	Literature and the Environment
PSYC 320	Ergonomics and the Environment
PSYC 325	Environmental Psychology
SOCI 322	Population
GEOG 135	Travel and Tourism

## TOTAL ENVIRONMENTAL STUDIES MINOR PROGRAM REQUIREMENTS 21-22 cr

## TEACHING LICENSURE PROGRAMS

Students majoring in environmental studies may opt to pursue initial teacher licensure as an early childhood teacher or elementary teacher. Students seeking any of these licensures must complete an environmental studies major, education major, and a licensure program in education.

## COURSE LISTINGS

### ENVI 101 Introduction to Environmental Studies

4 cr

Introduces contemporary problems resulting from human activity in the natural environment, emphasizing the theme of human ecology with interconnections in nature, energy, biodiversity, land use, air pollution and climate change, water supply and pollution, and solid and hazardous waste. The course includes field trips, research, and reporting. Students develop broad awareness as they learn teamwork and design problem solving strategies. Required laboratory.

**Prerequisite:** None

### ENVI 210 Environmental Law

3 cr

Studies the nature and development of United States environmental law, within its historical social, industrial, and political context, through an examination of related cases, statutory, and regulatory law. International comparisons will be made with federal law, and Massachusetts law will be compared with that of other states.

**Prerequisite:** Sophomore status

### ENVI 250 Special Topics in Environmental Studies

3 cr

Focuses attention on a special environmental topic or issue at an introductory level of investigation.

**Prerequisite:** Sophomore status or permission of instructor

### ENVI 260 Green Living Seminars and Workshops

1 cr

Focuses the attention of students and environmental professionals on specific problems or issues for a concentrated period of time. These one-credit interdisciplinary experiential learning activities may involve weekend work at an organic farm, short-term placement in an environmental industry, or a retreat at a mountain lodge. Content identified by subtitle.

**Prerequisite:** None

### ENVI 310 Politics and Environmental Policy

3 cr

Focuses on political science and government in national, regional, and international organizations throughout the world.

**Prerequisite:** Junior/senior status

Contact: Jerry Smosky, Ph.D.

(413) 662-5496, J.Smosky@mcla.edu

# ENVIRONMENTAL STUDIES

---

## **ENVI 315 Environmental Economics (Also listed as ECON 315)**

**3 cr**

Introduces students to the economic analysis of the conflict between our lifestyle of unlimited wants and the scarce resources of our biological environment. Examines economic theory and applications to explain the dynamics of conflict. Uses an economic approach to solving environmental problems; students will research, analyze, and report on environmental public policy issues.

**Prerequisite:** ECON 141 or ENVI 101& Jr. Status

## **ENVI 320 Methods in Environmental Research**

**4 cr**

Investigates the methods used by environmental researchers to formulate research problems, collect and analyze data, and present results professionally; examines sampling techniques, field procedures, and limitations of equipment and research design. Required laboratory.

**Prerequisite:** ENVI 101, Tier I Math, and junior status

## **ENVI 350 Advanced Special Topics in Environmental Studies**

**3 cr**

Focuses attention on a special environmental topic or issue at an advanced level of study.

**Prerequisite:** Junior status or permission of instructor

## **ENVI 401 Independent Research**

**1-3 cr**

For Environmental Studies majors who desire to conduct research on a specific topic in Environmental Studies. The research will be under the supervision and direction of the instructor and will require a scholarly report.

**Prerequisite:** Department approval

## **ENVI 499 Teaching Assistant in Environmental Studies**

**1-3 cr**

Provides the student with opportunity to assist in the preparation and implementation of an Environmental Studies course. This course will be graded on a Pass/Fail basis.

**Prerequisite:** Department approval

## **ENVI 500 Environmental Studies Independent Study**

**1-3 cr**

Open to junior and seniors who wish to study a topic in depth. Written reports and frequent conferences with the advisor are required.

**Prerequisite:** Junior/senior status; department approval

## **ENVI 540 Environmental Studies Internship**

**3-15 cr**

Offers the Environmental Studies major an opportunity to practice in an appropriate professional situation. The student will work with a faculty sponsor and an off-campus supervisor in gaining experience significant to the major.

**Prerequisite:** Junior/senior status; department approval