

Contact: Dr. Albert D. Hyers

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ENVIRONMENTAL STUDIES

PROGRAMS AVAILABLE

BACHELOR OF ARTS IN ENVIRONMENTAL STUDIES SCIENCE CONCENTRATION ENVIRONMENT AND SOCIETY CONCENTRATION ENVIRONMENTAL STUDIES MINOR

ENVIRONMENTAL STUDIES MAJOR PROGRAM

MCLA faculty from academic departments in the Sciences, Social Sciences, and Humanities provide an interdisciplinary four-year program leading to a Bachelor of Arts in Environmental Studies. The program provides students with both a broad understanding of environmental issues and specific skills in particular professions. The program consists of foundation courses and many field-based research and training experiences, which help students learn teamwork, networking, and shared problem solving. Students also concentrate their studies in particular academic areas to gain a deeper understanding of environmental issues. 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

ENVI 101 Environmental Studies I	4 cr
ENVI 102 Environmental Studies II	4 cr
ENVI 220 Environmental Economics	3 cr
5 Green Living Seminars and Workshops (1cr each)	5 cr
ENVI 310 Politics and Environmental Policy	3 cr
ENVI 401 Senior Internship and/or Research	6-12 cr
ENVI 402 Senior Seminar	<u>3 cr</u>

*Students are required to complete either Statistics or Modeling to meet their Core Curriculum Math Competency requirement

TOTAL FOUNDATION COURSES 28

SCIENCE CONCENTRATION

Requirements

Foundation Courses	28 cr
Choose 18 credits from the following selections	<u>18 cr</u>
BIOL 235 Botany	
BIOL 315 Humankind and the Environment	
BIOL 325 Aquatic and Wetland Botany	
BIOL 345 Vertebrate Natural History	
BIOL 371 Forest Environments	
BIOL 460 Ecology	
CCST 230 Energy and the Environment	
CCST 250 New England Physical Landscape	
CHEM 300 Chemistry and the Environment	
CHEM 305 Environmental Organic Chemistry	
CHEM 320 Environmental Analytical Chemistry	
GEOG 270 Weather and Climate	
GEOG 300 Global Warming or Natural Hazards	
GEOG 360 Environmental Geology	
GEOG 370 River Systems	
GEOG 380 Aerial Photography & Remote Sensing	

TOTAL SCIENCE CONCENTRATION REQUIREMENTS 46

ENVIRONMENT AND SOCIETY CONCENTRATION

Requirements

Foundation Courses	28 cr
Choose 18 credits from the following selections	<u>18 cr</u>
ANTH 352 Anthropology of Environmentalism	
ART 311 Art, History, and the Amer. Landscape	
CCHH 224 The Nuclear Age	
ENGL 309 Technical Writing: The Environment	
ENGL 374 Literature and the Environment	
ENVI 210 Environmental Law	
ENVI 320 Methods in Environ. Social Research	
ENVI 350-9 Environmental Travel Courses	
ENVI 330 Ecotourism	
GEOG 135 Travel & Tourism	
HIST 315 American Environmental History	
IDST 360 The World Environment	
PHIL 250 Environmental Ethics	
PSYC 320 Ergonomics and the Environment	
PSYC 325 Environmental Psychology	
SOCI 322 Population	

TOTAL ENVIRONMENT AND SOCIETY CONCENTRATION REQUIREMENTS 46

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ENVIRONMENT STUDIES MINOR PROGRAM

Requirements

ENVI 101	Environmental Studies I	4 cr
ENVI 102	Environmental Studies II	4 cr

Four Additional Courses:

Two from the Society Concentration	6 cr
Two from the Science Concentration	<u>6 cr</u>

TOTAL ENVIRONMENTAL STUDIES MINOR PROGRAM REQUIREMENTS 20 cr

COURSE LISTINGS

ENVI 101 Environmental Studies I 4 cr

Introduces contemporary problems resulting from human activity in the natural environment by emphasizing the theme of human ecology with such issues as interconnections in nature, energy, biodiversity, land use, air pollution and climate change, water supply and pollution, and solid and hazardous waste; raises questions for later course work. As a seminar, 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 102 Environmental Studies II 4 cr

Introduces contemporary problems resulting from human activity in the natural environment by emphasizing the theme of human ecology with such issues as interconnections in nature, energy, diversity, land use, air pollution and climate change, water supply and pollution, and solid and hazardous waste; raises questions for later course work. As a seminar, the course includes field trips, research and reporting. Students develop broad awareness as they learn teamwork and design problem solving strategies. Required laboratory. Continuation of Environmental Studies I.

Prerequisite: ENVI 101

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 220 Environmental Economics (Also listed as ECON 281) 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 in its applications to explaining the dynamics of conflict. Exposes students to the economic approach to solving environmental problems created by energy generation, mining, maritime and logging industries, tourism, land development, industrial by-products, disposal, and related issues. Encourages students to critically analyze the usefulness of this approach to solving these problems.

Prerequisite: ECON 141 or ENVI 101 & 102

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 260-290 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

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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

ENVI 320 Methods in Environmental Social Research

3 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.

Prerequisite: None

ENVI 330 Ecotourism

3 cr

Inspires students from many different disciplines to explore issues of sustainability through low-impact tourism development. Students will explore the exploding market in ecotourism based on first-hand accounts from ecotourism hotspots throughout the world. Students will learn about major issues and options facing tourism professionals, governments, and local communities.

Prerequisite: None

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 Senior Internship and/or Research Project

6-12 cr

With a faculty advisor, students will arrange for an internship and/or research project that uses their training. In addition to placement responsibilities, students will research and prepare a professional report on a major environmental topic related to their internship or research. This should be of a presentable quality for publications, a conference, or campus event.

Prerequisite: Senior status and departmental approval

ENVI 402 Senior Seminar

3 cr

Focuses attention on topical issues. Through readings and particularly use of their senior research and internship, students from both the Environment and Society concentration and the Environmental Science concentration work together to propose strategies for resolving major environmental problems.

Prerequisite: Senior environmental major

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