The information presented here is as of 02/01/2013.

ENVIRONMENTAL STUDIES

Director, Associate Professor JENNIFER L. FRENCH
Associate Director, Lecturer SARAH S. GARDNER

Associate Professor FRENCH, Assistant Professors: HOWE, KOHLER. Lecturer: GARDNER. Research Associates: R. BOLTON, VENOLIA.

MEMBERS OF THE CENTER

HENRY W. ART, Professor of Biology and Environmental Studies
DAVID H. BACKUS, Lecturer in Geosciences
LOIS M. BANTA, Associate Professor of Biology
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RALPH BRADBRAD, Professor of Economics
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DAVID P. DETHIER, Professor of Geosciences
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JOAN EDWARDS, Professor of Biology
ANTONIA FOLAS, Professor of Anthropology and Sociology
JENNIFER L. FRENCH, Associate Professor of Spanish
SARAH S. GARDNER, Lecturer in Environmental Studies
DARRA GOLDBERG, Francis Christopher Oakley Third Century Professor of Russian
KIM GUTSCHOW, Lecturer in Religion and Anthropology/Sociology
DOUGLAS GOLLIN, Professor of Economics
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ANDREW JONES, Manager, Hopkins Memorial Forest
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DAVID P. RICHARDSON, Professor of Chemistry
STEPHEN C. SHEPPARD, Professor of Economics
DAVID C. SMITH, Senior Lecturer in Biology
DAVID L. SMITH, Professor of English
JOHN W. THOMAN, Jr., Professor of Chemistry
CLAIRE TING, Associate Professor of Biology

Environmental issues call upon citizens, organizations, and other agencies to grasp complex science, address conflicting human values, and make difficult ethical and political choices. The three curricular options in Environmental Studies—the majors in Environmental Policy and Environmental Science and the concentration in Environmental Studies—are designed to prepare students to deal effectively with these issues by integrating perspectives and methodologies from the natural sciences, the social sciences, and the arts and humanities.

The program is administered by the Center for Environmental Studies (CES), located in Harper House. Founded in 1967, CES was one of the first environmental studies programs at a liberal arts college. In addition to the academic program described below, CES is the focus of a varied set of activities in which students lead and participate, often with other members of the Williams community. CES offers extensive resources including library materials and databases, GIS facilities, and funding for student-initiated activities, summer research and internships. The Center administers the Hopkins Memorial Forest, a 2600-acre natural area northwest of campus, where field-study sites, a laboratory, and passive-recreation opportunities may be found in all seasons. CES also operates the Environmental Analysis Laboratory in Morley Science Center.

The Program in Environmental Studies offers three distinct curricular options: students may decide to pursue either a major in Environmental Policy or Environmental Science or to complement a major in a different area with a concentration in Environmental Studies. Students may not double-major in Environmental Policy and Environmental Science or combine either major with a concentration in Environmental Studies.

Advising in Environmental Studies

Students interested in pursuing a major or concentration sponsored by CES should seek advising from program faculty as early as possible. Students who decide to major in either Environmental Policy or Environmental Science are required to identify a track through the major and a faculty advisor from the list below at the time of declaration. Both the advisor's signature and that of the Director of the Center for Environmental studies are required on the major declaration form.

Track:

Political Economy
Pollution Policy
Political Theory and Law
Society & Culture
Environmental Biology
Environmental Chemistry
Environmental Geosciences

Advisors for 2012-13:

Political Economy
BRADBURY, Paul.
Political Theory and Law
GOODWIN, Kohler, Paul.
Society & Culture
ARCHER, French, Howe.
Environmental Biology
MORALES, Smith, Ting.
Environmental Chemistry
BINGEMANN, RICHARDSON, THOMAN.
Environmental Geosciences
DETHIER, JOHNSON, KARABINOS.

The 'Four Places' Goal and Study Away:

Learning about particular places is an essential part of Environmental Studies. By the time each student graduates, she or he should have developed intellectual insight into and personal experience of four places: ‘Home,’ ‘Here,’ ‘There,’ and ‘The World.’ For practical purposes, ‘Here’ is the Berkshires and ‘There’ is a place where the geography and socioeconomic circumstances are outside the student’s previous experience. Although this goal is not a requirement of the majors or the concentration, it is a significant aspect of the program, and CES resources are aimed in part at enabling all students to meet it. For example, students are encouraged to pursue summer internships in their ‘Home’ communities, and field courses in natural science, environmental planning, and other areas can deepen familiarity with ‘Here.’ Summer recess and Winter Study provide many excellent opportunities for research and other learning outside the New England region.

A wide variety of study away options are available to students in Environmental Studies, including the Williams Mystic program. Students in Environmental Studies are encouraged to study a foreign language and to spend all or part of their junior year abroad. Students considering either a semester or year away should consult both the CES Director and the study abroad office as early as possible to discuss their options. Up to two courses for the majors and three courses for the concentration may be taken outside of Williams. Approval for courses taken elsewhere must be granted in writing by the Director of CES.

Honor in Environmental Studies

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Honor in Environmental Studies
A student earns honors in Environmental Policy, Environmental Science or Environmental Studies by successfully completing a rigorous independent research project under the supervision of a member of the CES faculty. Juniors who wish to apply for the honors program should submit a 5-page proposal to their intended advisor and the Director of CES by the end of spring break. If a student wishes to work with a faculty member not affiliated with CES, the student must also identify a co-advisor from within the program.

Students will be notified by the end of the semester whether or not their proposal has been approved. Students in the honors program are required to present their preliminary findings at a meeting of CES students, faculty and staff in November. The final research project should be submitted by the end of the junior year. Majors and concentrators who pursue honors in Environmental Policy, Environmental Science or Environmental Studies alone should enroll in ENVP 493-W31-494, ENVS 493-W31-494, or ENVI 493-W31-494, Senior Research and Thesis, in addition to completing the requirements of the major or concentration.

Because most research requires sustained field, laboratory or archival work that is difficult to combine with conventional coursework, students are strongly encouraged to spend the summer before senior year doing honors research. Funds to support student research are available from restricted endowments of the CES, and an open competition is held each spring to allocate funding resources. Some departments also provide limited support for summer thesis research. Students and their faculty sponsors should plan the thesis with the possibility of summer research in mind. Honors will be awarded on the basis of the academic merit and originality demonstrated by the student and in the completed thesis. The following timeline has been established for students pursuing honors in 2012–13:

- Tuesday, October 30 (7:00 pm) Preliminary presentation of research results
- Thursday, May 2 (7:00 pm) Defense of honors thesis
- Thursday, May 16 (5:00 pm) Delivery of final thesis to Director of CES

Failure to meet any one of these deadlines will result in removal from the honors program.

THE MAJOR IN ENVIRONMENTAL POLICY

The major in Environmental Policy brings together core courses in Environmental Studies with relevant coursework in related fields including Economics and Political Science. The goal of the Environmental Policy major is to combine scientific literacy with an understanding of the economic, political and cultural structures involved in institutional decision-making on environmental matters. Eight courses are common to all Environmental Policy majors; there are also three distinct tracks through the major, each of which entails an additional theory/methods course and two electives. The three tracks through the major are a) Political Economy, b) Political Theory and Law, and c) Society and Cultural. Environmental Policy majors are also encouraged to take GEOS 214 Remote Sensing and GIS. Students majoring in Environmental Policy should investigate the courses required for their chosen track and consult their advisor to plan an appropriate schedule for completing the major, including any prerequisites not listed below. Courses cannot be double-counted within the major; for example, a course used to fulfill the theory/methods requirement cannot also be used as an elective. The availability of required courses may vary slightly from year to year, and substitutions may be authorized occasionally by the Director of CES. Environmental Policy majors will be exempt from taking Econ 110 if they received a score of 5 on the Microeconomics AP exam, a 6 or 7 on the higher-level Economics IB examination, or an A or B in economics in A-levels. Students seeking exemption from ENVI 102 on the basis of exam results should consult the Director of CES.

Requirements for the Major in Environmental Policy

ENVI 101 Nature and Society
ECON 110 Principles of Microeconomics
ENVI 102 Introduction to Environmental Science Methods
BIOL 203 Ecology

A theory/methods course:
For the Political Economy track, ECON 253 Empirical Methods in Political Economy
or ECON 255 Econometrics
For the Political Theory and Law track, PSCI 203 Introduction to Political Theory
or another PSCI course selected in consultation with the Political Science Department Chair and the Director of CES
For the Society and Culture track, ENVI 217 Environmental "isms": Theory and Method in the Environmental Humanities. Seniors majors who have completed one of the previous theory/method options for this track should consult the Director of CES for approval.

Two electives appropriate to the track and approved by the student’s advisor and the Director of CES if not included in the lists below.

For the Political Economy track, courses dealing with policy-making and resource allocation:
ECON 213 Introduction to Environmental and Natural Resource Economics
ECON 228 Water as a Scarce Resource
ECON 229 Law and Economics
ECON 379 Economics and the Environment
ECON 386 Environmental Policy and Natural Resource Management
ECON 395 Growth and Sustainability
ECON 457 Public Economics Research Seminar
ENVI 208 Science and Politics in Environmental Decision Making
ENVI 290 Ecologies of Place
ENVI 283 Dirty Politics: Regulating Hazardous Chemicals and Wastes
ENVI 309 Environmental Policy
ENVI 328 Global Environmental Politics
PSCI 201 Power, Politics and Democracy in America
PSCI 216 American Constitutionalism I: Structures of Power
PSCI 238 Economic Liberalism and Its Critics
PSCI 327 Global Politics of Development and Underdevelopment
MAST 351 Marine Policy

For the Political Theory and Law track, courses dealing with liberalism and its critique:
ECON 228 Law and Economics
ENVI 208 Science and Politics in Environmental Decision Making
ENVI 211 Race and the Environment
ENVI 283 Dirty Politics: Regulating Hazardous Chemicals and Wastes
ENVI 303 Cultures of Climate Change
ENVI 309 Environmental Policy
ENVI 328 Global Environmental Politics
PHIL 236 Contemporary Ethical Theory
PSCI 201 Power, Politics and Democracy in America
PSCI 216 American Constitutionalism I
PSCI 223 International Law
PSCI 238 Economic Liberalism and Its Critics
PSCI 309 Environmental Policy
PSCI 311 Congress
PSCI 316 Making Public Policy
PSCI 334 Theorizing Global Justice

For the Society and Culture track, courses exploring culture and diversity as bearing on environmental issues:
ANSO 206 Social Theory
AMST/LATS 302 Public Sphere/Public Space
AMST/ENVI 221/LATS 220 Introduction to Urban Studies
AMST/LATS 312 Chicago
AMST/LATS 408 Envisioning Urban Life
Arth/ENVI 201 American Landscape History
Arth 311 North American Suburbs
Arth/ENVI 308 North American Park Idea
Arth/ENVI 310 North American Agriculture History
Arth 318 The American Pastoral Mode
ENVI 208 Science and Politics in Environmental Decision Making
ENVI 209 Ecologies of Place
ENVI 211 Race and the Environment
ENVI 283 Dirty Politics: Regulating Hazardous Chemicals and Wastes
ENVI 291 Religion and the American Environmental Imagination
ENVI 306 Environmental Discourse
ENVI/PHIL 311 Environmental Philosophy and the Emergence of the Ecosphere
ENVI/LATS 318 California: Myths, Peoples and Places
ENVI/ENGL 331 Romantic Nature
HSCI 240 Technology and Science in American Culture
MAST/ENGL 231 Literature of the Sea
PHIL 210 Philosophy of the Social Sciences
PHIL 256 Contemporary Ethical Theory
PSCI 203 Introduction to Political Theory
PSCI 238 Economic Liberalism and its Critics
PSCI 334 Theorizing Global Justice
REL 287 Society, Religions and the Environment
SCST 401 Critical Perspectives on Science and Technology
SOC 306 Technology and Modern Society

ENVI 302 Environmental Planning Workshop
ENVI 307 Environmental Law
ENVI 309 Environmental Policy
or ENVI 328 Global Environmental Politics
or MAST 351 Marine Policy
or ECON 386 Environmental Policy and Natural Resource Management
ENVI 402 Senior Seminar

THE MAJOR IN ENVIRONMENTAL SCIENCE

The major in Environmental Science brings together core courses in Environmental Studies with relevant coursework in a specific scientific discipline. The goal of the major in Environmental Science is to provide training in one of the natural sciences as well as an understanding of the complex array of natural, social and political factors involved in environmental issues. Five courses are common to all Environmental Science majors; there is also a methods requirement and three disciplinary tracks, each comprised of five additional courses. The three disciplinary tracks are a) Environmental Biology, b) Environmental Chemistry, and c) Environmental Geosciences. Students majoring in Environmental Science should investigate the courses required for their chosen track and consult their advisor to plan an appropriate schedule for completing the major, including any prerequisites not listed below. Courses cannot be double-counted within the major; for example, a course used to fulfill the methods requirement cannot also be used as an elective. The availability of required courses may vary slightly from year to year, and substitutions may be authorized occasionally by the Director of CES. Students seeking to place out of particular courses on the basis of AP, IB or A-level exams should consult the Director.

Requirements for the Major in Environmental Science

Six core courses:

- ENVI 101
- ENVI 102
- BIOL/ENVI 203
- ENVI 302
- ENVI 402/MAST 402

A methods course:

- CHEM 364/ENVI 364 Instrumental Methods of Analysis
- GEOS 214/ENVI 214 Remote Sensing and Geographic Information Systems
- STAT 201 Statistics and Data Analysis
- STAT 231 Statistical Design of Experiments

A five-course disciplinary track:

for Environmental Biology

Three electives at the 300+ level from:

- BIOL 302/ENVI 312 Communities and Ecosystems
- BIOL 305 Evolution
- BIOL 308 Integrative Plant Biology: Fundamentals and New Frontiers
- BIOL 315 Microbiology: Diversity, Cellular Physiology, and Interactions
- BIOL 422/ENVI 422 Ecology of Sustainable Agriculture
- CHEM 341/ENVI 341 Toxicology and Cancer
- CHEM 364/ENVI 364 Instrumental Methods of Analysis
- MAST 311/BIOL 231 Marine Ecology

Two electives from:

- BIOL 102 The Organism
- BIOL 134/ENVI 134 The Tropics: Biology and Social Issues
- BIOL 220/ENVI 220 Field Botany and Plant Natural History
- CHEM 151 Introductory Concepts of Chemistry
- GEOS 101/ENVI 105 The Co-Evolution of Earth and Life
- GEOS 103/ENVI 103 Global Warming and Natural Disasters
- GEOS 104/ENVI 104/MAST 104 Oceanography
- GEOS 215/ENVI 215 Climate Changes
- GEOS 218/ENVI 218 The Carbon Cycle and Climate
- MAST 211/GEOS 210 Oceanographic Processes

for Environmental Chemistry

CHEM 151 Introductory Concepts of Chemistry
or CHEM 153 Introductory Concepts of Chemistry: Advanced Section
or CHEM 155 Principles of Modern Chemistry

CHEM 156 Organic Chemistry: Introductory Level
CHEM 251 Organic Chemistry: Intermediate Level or CHEM 255 Organic Chemistry Intermediate Level—Special Laboratory Section
CHEM 255 Organic Chemistry: Intermediate Level—Special Laboratory Section
CHEM 256 Foundations of Modern Chemical Science
CHEM 341/ENVI 341 Toxicology and Cancer

for Environmental Geosciences
One introductory Geosciences class:
GEOS 101/ENVI 105 The Co-Evolution of Earth and Life
or GEOS 103/ENVI 103 Global Warming and Natural Disasters
or GEOS 104/ENVI 104/MAST 104 Oceanography
or GEOS 105 Geology Outdoors

GEOS 201/ENVI 205 Geomorphology
GEOS 215/ENVI 215 Climate Changes

GEOS 205/ENVI 207 Earth Resources
or MAST 211/GEOS 210 Oceanographic Processes or GEOS 206/ENVI 206 Renewable Energy and the Sustainable Campus
or GEOS 218T/ENVI 218T Carbon Cycle

One 300+ level elective in Geosciences

CONCENTRATION IN ENVIRONMENTAL STUDIES

The Environmental Studies concentration provides students with an opportunity to explore how humans interact with the environment, including physical, biological, philosophical, and social elements. The concentration is designed so that students will understand the complexity of issues and perspectives and appreciate that most environmental issues lack distinct disciplinary boundaries. The goal of the concentration is to educate students to be well-informed, environmentally-literate citizens of the planet who have the capacity to become active participants in the local and global community. To this end, the concentration is designed to develop the capability to think in interdisciplinary ways and to use synthetic approaches to solve problems while incorporating the knowledge and experiences gained from majoring in other departments at the College. The concentration in Environmental Studies consists of four core courses and one elective course in each of the three divisions: natural science, social science, and humanities and arts.

Requirements for the Concentration in Environmental Studies

BIOL 203/ENVI 203 Ecology
ENVI 101 Nature and Society: An Introduction to Environmental Studies
ENVI 302 Environmental Planning Workshop
ENVI 402/MAST 402 Senior Seminar: Perspectives on Environmental Studies

Distribution Courses
In order to earn the concentration a student must take one course from each of the following three groups. Courses may be counted both toward the concentration in Environmental Studies and toward a disciplinary major.

Students can check with the program director to see if other courses not listed here might count as electives.

The Natural World
BIOL 134/ENVI 134 The Tropics: Biology and Social Issues
BIOL 220/ENVI 220 Field Botany and Plant Natural History
BIOL 302/ENVI 312 Communities and Ecosystems
BIOL 422/ENVI 422 Ecology of Sustainable Agriculture
BIOL 424/ENVI 424 Conservation Biology
CHEM 341/ENVI 341 Toxicology and Cancer
CHEM 364/ENVI 364 Instrumental Methods of Analysis
ENVI 102 Introduction to Environmental Science
GEOS 103/ENVI 105 The Co-Evolution of Earth and Life
GEOS 102 An Unfinished Planet
GEOS 105/ENVI 105 Global Warming and Natural Disasters
GEOS 104/ENVI 104/MAST 104 Oceanography
GEOS 201/ENVI 205 Geomorphology
GEOS 205/ENVI 207 Earth Resources
GEOS 206/ENVI 206 Renewable Energy and the Sustainable Campus
GEOS 214/ENVI 214 Remote Sensing and Geographic Information Systems
GEOS 215/ENVI 215 Climate Changes
GEOS 218/ENVI 218 The Carbon Cycle and Climate
MAST 211/GEOS 210 Oceanographic Processes
MAST 311/BIOL 231 Marine Ecology
PHYS 108/ENVI 108 Energy Science and Technology

Humanities, Arts, and Social Sciences
APR 211/ENVI 211/SOC 211/AMST 211 Race and Environment
ANTH 214/ENVI 224 The Rise and Fall of Civilizations
ANTH 272/WGSS 272 Sex and the Reproduction of Society
ARTS 329 Architectural Design II
ENGL 378/ENVI 378 Nature/Writing
ENVI 209/ANTH 209/AMST 209 Ecologies of Place: Culture, Commodities & Everyday Life
ENVI 217 Environmentalisms: Theory and Method in the Environmental Humanities
ENVI 291/REL 291/SOC 291 Religion and the American Environmental Imagination
ENVI 303/SOC 303 Cultures of Climate Change
HIST 371/ENVI 371 The History of U.S. Environmental Politics
LAT 220/AMST 221/ENVI 221 Introduction to Urban Studies: Shaping and Living the City
LAT 312/AMST 312/ENVI 313 Chicago
MAST 231/ENGL 231 Literature of the Sea
MAST 325/HIST 352 America and the Sea, 1600–Present
REL 227/LATS 227/AMST 227/ENVI 227 Utopias and Americas
REL 287/ENVI 287 The Dynamics of Globalization: Society, Religion and the Environment
SOC 315 Culture, Consumption and Modernity
SOC 368 Technology and Modern Society

Environmental Policy
ECON 204/ENVI 234 Economics of Developing Countries
ECON 213/ENVI 213 Introduction to Environmental and Natural Resources Economics
ECON 215/INST 315 International Trade, Globalization and Its Effects
ECON 229/ENVI 228 Water as a Scarc Resource
ECON 386/ENVI 386/ECON 518 Environmental Policy and Natural Resource Management
ECON 517/ECON 388/ENVI 388 Urbanization and Development
ENVI 208 Science and Politics in Environmental Decision Making
ENVI 283/PSCI 283 Dirty Politics: Regulating Hazardous Chemicals and Wastes
ENVI 307/PSCI 317 Environmental Law
ENVI 309/HSCT 309/SCST 309/PSCI 301 Environmental Policy
MAST 351/ENVI 351/PSCI 319 Marine Policy
PSCI 225 Global Political Economy
PSCI 372/ENVI 292 The Global Politics of Development and Underdevelopment
PSCI 328/ENVI 328 Global Environmental Politics

Variations from the requirements of the concentration must be approved in writing by the director of the program. Students are urged to consult with program faculty and the director as soon as they develop an interest in the concentration or if they intend to participate in study away opportunities.

In addition to courses fulfilling the concentration requirements, the following electives and related electives are offered:

Environmental Studies 397, 398 Independent Study of Environmental Problems
Environmental Studies 493-W31-494 Senior Research and Thesis

Winter study courses play an important role in the program, offering opportunities to experiment in fields unfamiliar to the student, and for interdisciplinary topics to be developed by faculty working alone and in teams. Students are urged to review each year's winter study offerings bearing in mind their interests in the environment.

ENVI 101(F) Nature and Society: An Introduction to Environmental Studies
This course introduces environmental studies as an interdisciplinary field of learning. It will provide a survey of a broad range of environmental problems, cases, and questions, from climate change to sustainable agriculture, from toxic waste to species extinction. We will also examine the intellectual traditions, authors, and historical developments that have most profoundly shaped our understanding of these issues. Keeping a constant eye on the complexities of life in the twenty-first century, we will explore the many different theories and methods that inform environmental scholarship, activism, and policy-making in a variety of cultural arenas and across geographical scales. Along the way, we will read works by philosophers, economists, journalists, historians, sociologists, and many others.

Format: lecture/discussion. Requirements/Evaluation: evaluation will be based on participation, in-class exercises, several writing assignments and a final exam.
No prerequisites. Enrollment limit: 35 (expected: 35).
Satisfies one semester of the Division II requirement.
Hour: 9:55-11:10 TR, 11:20-12:35 TR KOHLER, HOWE

ENVI 102(S) Introduction to Environmental Science Methods
Environmental science is the interdisciplinary study of the Earth's systems through the synthesis of physical, chemical, geological, and biological perspectives. This course introduces students to the scientific methods used to assess human impacts on the environment. Through this course students will be introduced to scientific literature on local and regional issues and place them in a global context. The environmental policy implications of the local and regional data that is collected also will be examined through discussions and class debates. We will explore the physical/natural environmental processes within the local Hoosic River Watershed through field and laboratory exercises. These local findings then will be interpreted in the broader context of the downstream watersheds and landscapes in which the Hoosic is situated, namely the Hudson River, and ultimately the Atlantic Ocean. Examples of topics covered are: linkages between terrestrial and aquatic ecosystems, climate change, human impacts on water quality, acid rain, toxic metals, human influences on hydrology, ecosystem restoration/remediation, and waste treatment. Some to the analyses of these topics will be through short lab reports, while the applications of these science topics to policy issues will be explored through classroom debates. Students design and complete an independent project on one of these subjects as it pertains to their hometown.

Format: lecture/discussion. Evaluation will be based on lab reports, student debates, class discussion participation, independent project presentation and paper.
Enrollment limit: 36 (expected: 36). Preference given to first-year students. This course is an introductory science seminar, designed for students who have a strong interest in Environmental Science. It is a required course for the majors in Environmental Policy and Environmental Science and satisfies one semester of the Division III requirement. This course also satisfies the "Natural World" requirement for the Environmental Studies concentration.
Hour: 8:30-9:45 TR Lab: 1-4 TW ART, BINGEMANN and BACKUS

ENVI 103(F) Global Warming and Natural Disasters (Same as GEOS 103)
See under GEOS 103 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 104(S) Oceanography (Same as GEOS 104 and MAST 104)
See under GEOS 104 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 105(F) The Co-Evolution of Earth and Life (Same as GEOS 101)
See under GEOS 101 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 108(S) Energy Science and Technology (Same as PHYS 108) (Q)
See under PHYS 108 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 134(F) The Tropics: Biology and Social Issues (Same as BIOL 134) (D)
See under BIOL 134 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 203(F) Ecology (Same as BIOL 203) (Q)
See under BIOL 203 for full description.
Required course for students wishing to complete the majors in Environmental Policy and Environmental Science and the Environmental Studies concentration.

ENVI 205(F) Geomorphology (Same as GEOS 201)
See under GEOS 201 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 206(S) Renewable Energy and the Sustainable Campus (Same as GEOS 206)
See under GEOS 206 for full description.
This course satisfies the "Natural World" requirement for the Environmental Studies concentration.

ENVI 207 Earth Resources (Same as GEOS 205) (Not offered 2012-2013)
See under GEOS 205 for full description.
This course explores the relationship between science and politics in environmental decision-making. How do legislators know when a species is endangered and warrants protection? What precautions should be applied in allowing genetically modified foods onto our plates? Can we, and should we, weigh the risks of malaria against the impacts of pesticides used to control those mosquitoes that transmit the disease? How has the global community come together to understand the risks from global climate change, and how have we responded? How do power relations and existing institutions shape what knowledge, and whose knowledge, is taken on board in decision-making, be it at the local, national or global level. We will delve into how these dynamics shape policy outcomes and we will also examine novel approaches for incorporating the knowledge of tradition-ally disempowered groups, including indigenous and local communities.
Format: lectures and discussion with some role-play exercises. Requirements: several shorter writing assignments and two 5- to 7-page essays.
No prerequisites; open to first-year students. Enrollment limit: 19 (expected: 15). This course fulfills the Exploring Diversity Initiative requirement; it may also be used as an environmental policy elective by ENVI concentrators. Students majoring in environmental policy or environmental science should ask the Director of CES how it may be used towards the completion of the major.
ENVI 209 Ecologies of Place: Culture, Commodities and Everyday Life (Same as AMST 209 and ANTH 209) (Not offered 2012-2013)
This course will explore the environmental implications of everyday life in modern America. It will ask how cultural, political, economic, and ecological systems interact to produce ordinary places and vernacular landscapes, from campuses to cul-de-sacs, farms to forests, nation-states to national parks. Combining approaches from cultural
Sciences elective for the Environmental Studies concentration. This class satisfies the theory/methods requirement of the Society & Culture track of the Environmental Policy major. It may also be used to fulfill the Humanities, Arts and Social Sciences’ requirement of the Environmental Studies concentration.

Format: lecture/discussion. Requirements: three 5- to 7-page essays and several shorter writing assignments.


This course satisfies the “Theory/Methods” requirement for the Society & Culture track through the Environmental Policy major and the Humanities, Arts and Social Sciences’ requirement of the Environmental Studies concentration. Satisfies one semester of Division II requirement.

Hour: 9:55-11:10 TR  

ENV 211(F) Race and the Environment (Same as AFR 211, AMST 211 and SOC 211) (D)  
(See under AFR 211 for full description.)  
J. MANIGAULT-BRYANT

ENV 213(F) Introduction to Environmental and Natural Resources Economics (Same as ECON 213) (Q)  
(See under ECON 213 for full description.)  
JACOBSON

ENV 214(S) Remote Sensing and Geographic Information Systems (Same as GEOS 214)  
(See under GEOS 214 for full description.)  
DETHIER

This course satisfies theory/methods requirement for the major in Environmental Science and the “Natural World” requirement for the Environmental Studies concentration.

ENV 215 Climate Changes (Same as GEOS 215) (Not offered 2012-2013) (Q)  
(See under GEOS 215 for full description.)  
COOK

This course satisfies the “Natural World” requirement for the Environmental Studies concentration.

ENV 217(S) Environmental ‘isms’; Ideology in the Environmental Humanities (Same as AMST 216) (D)  
How does culture shape our use and imagination of the physical environment? And how does the physical environment shape culture in turn? These are the central questions of the environmental humanities. This course will explore the various ways in which scholars from a broad range of disciplines have sought to answer these questions by incorporating insights from social theory and cultural criticism. Focusing on studies of socio–environmental conflict in the United States and Latin America from the time of European colonization to the present, it will examine key works from environmental history, ecocriticism, environmental philosophy, and cultural geography, and it will survey the major methodological and theoretical commitments that unite these fields. Emphasis will be placed on environmental justice and the ideological critique of modernity. How have scholars made environmental sense of liberalism, colonialism, capitalism, nationalism, sexism, and racism? How have these “isms” influenced our relations with the natural world, and can we draw lessons from these experiences to improve human–nature relations for the better? This course fulfills the Exploring Diversity requirement.

Format: lecture/discussion. Requirements: three 5- to 7-page essays and several shorter writing assignments.

Prerequisites: Environmental Studies 101 or permission of instructor. Enrollment limit: 19 (expected: 15).

This class satisfies the theory/methods requirement of the Society & Culture track of the Environmental Policy major. It may also be used to fulfill the Humanities, Arts and Social Sciences elective for the Environmental Studies concentration.

Hour: 9:55-11:10 TR  

ENV 218T The Carbon Cycle and Climate (Same as GEOS 218T) (Not offered 2012-2013) (W)  
(See under GEOS 218 for full description.)  
COOK

This course satisfies the “Natural World” requirement for the Environmental Studies concentration.

ENV 219 Topics in Sustainable Agriculture (Not offered 2012-2013)  
What does sustainability mean in the context of agricultural practice, food production, and consumption? This course encourages students to think analytically and critically about the meanings and practices of sustainability in the context of food and agriculture. We examine diverse regional and historic contexts to explore how concerns about sustainability in relation to agricultural production and food consumption emerged, and explore the contemporary incarnations of sustainable agriculture in organic, fair trade, and local agriculture as well as in debates around food miles, biofuels, and genetic modification. Cutting across each of these individual topics, we will think about the connections between production and consumption, ecology and society. By the end of this course, it is expected that students will develop a multifaceted understanding of the social, political and cultural dimensions of sustainable food and agriculture.

Format: seminar. Requirements: Students will be required to submit discussion questions before each class, complete a short writing assignment each week, and prepare a mid-term essay and final research paper.

No prerequisites. Enrollment limit: 19 (expected: 19).

Satisfies one semester of the Division II requirement.

GALVIN

ENV 220(S) Field Botany and Plant Natural History (Same as BIOL 220)  
(See under BIOL 220 for full description.)  
J. EDWARDS

This course satisfies the “Natural World” requirement for the Environmental Studies concentration.

ENV 221 Introduction to Urban Studies: Shaping and Living the City (Same as AMST 221 and LATS 220) (Not offered 2012-2013)  
(See under LATS 220 for full description.)  
RUA

This course satisfies the “Humanities, Arts, and Social Sciences” requirement for the Environmental Studies concentration.

ENV 222(F) The Rise and Fall of Civilizations (Same as Anthropology 214)  
(See under ANTH 214 for full description.)  
FOIAS

This course satisfies the “Humanities, Arts, and Social Sciences” requirement for the Environmental Studies concentration.

ENV 227 Utopias and Americas (Same as AMST 227, LATS 227 and REL 227) (Not offered 2012-2013)  
(See under REL 227 for full description.)  
HIDALGO

ENV 228T Water as a Scarc Resource (Same as ECON 228) (W)  
(See under ECON 228 for full description.)  
BRADBURD

This course satisfies the “Environmental Policy” requirement for the Environmental Studies concentration.

ENV 234 Economics of Developing Countries (Same as ECON 204) (Not offered 2012-2013)  
(See under ECON 204 for full description.)  
RAI

This course satisfies the “Environmental Policy” requirement for the Environmental Studies concentration.

ENV 273(F) Politics Without Humans, Humans without Politics (Same as PSCI 273)  
(See under PSCI 273 for full description.)  
EPHRAIM

Enrollment limit: 19 (expected: 15).

This course satisfies the “Humanities, Arts, and Social Sciences” requirement for the Environmental Studies concentration.

ENV 287 The Dynamics of Globalization: Society, Religion and the Environment (Same as REL 287) (Not offered 2012-2013) (D)  
(See under REL 287 for full description.)  
DREYFUS

This course satisfies the “Humanities, Arts, and Social Sciences” requirement for the Environmental Studies concentration.
Prerequisites: Environmental Studies 101 and Biology/Environmental Studies 203, or permission of instructors; open to juniors and seniors only. Required course for students wishing to complete the majors in Environmental Policy and Environmental Science and the Environmental Studies concentration.

Planning study. This course also includes field trips, town meetings, interviews, survey work, and computer mapping labs.

This course satisfies the "Environmental Policy" requirement for the Environmental Policy major and the Environmental Studies concentration.

Prerequisites: Environmental Studies 101 or permission of instructor. Environmental Law (Same as PSCI 317)

We rely on environmental laws to make human communities healthier and protect the natural world, while allowing for sustainable economic growth. Yet, despite 40 years of increasingly varied and complex legislation, balancing human needs and environmental protection has never been harder than it is today.

Environmental Studies 307 analyzes the transformation of modern political, economic and social life. ENVI 307 also addresses the role of community activism in environmental law, from local battles over proposed industrial facilities to national campaigns for improved corporate citizenship.

By the completion of the semester, students will understand both the successes and failures of modern environmental law and how these laws are being reinvented, through innovations in political trading and "product certification", to confront globalization, climate change and other emerging threats.

Format: lecture/discussion. Evaluation is based on several short writing assignments, a term research project, and active participation in class.

This course will provide an overview of environmental policy-making, with an emphasis on the ways in which policies are developed and implemented at the local, state and national level. Special attention will be paid to the variety of actors that shape environmental outcomes, including legislators, administrators, the science community, civil society and the private sector. Following an examination of different models of environmental policy-making, this course will focus on several case studies, including on the management of public lands, air and water pollution, climate change and endangered species protection.

This course satisfies the "Environmental Policy" requirement for the Environmental Studies concentration. Satisfies one semester of the Division II requirement.

Hour: 7:00-9:40 p.m M CASSUTO

ENVI 309 Environmental Law (Same as HSCI 309, PSCI 301 and SCST 309) (Not offered 2012-2013)

This course will provide an overview of environmental policy-making, with an emphasis on the ways in which policies are developed and implemented at the local, state and national level. Special attention will be paid to the variety of actors that shape environmental outcomes, including legislators, administrators, the science community, civil society and the private sector. Following an examination of different models of environmental policy-making, this course will focus on several case studies, including on the management of public lands, air and water pollution, climate change and endangered species protection.

This course satisfies the "Environmental Policy" requirement for the Environmental Studies concentration.

Satisfies one semester of the Division II requirement.

Hour: 1:10-2:25 MR HOWE

ENVI 310(S) Religion and the American Environmental Imagination (Same as REL 291 and SOC 291) (W)

This course examines the relationship between religious and environmental thought in the modern United States. Focusing on the complex and closely linked legacies of Christianity, secularism, and popular spirituality, we will explore the religious and anti-religious roots of contemporary environmental discourse. Along the way, we will pursue a set of vexing questions: is it possible for human beings to achieve a harmonious relationship with nature? If so, what kind of religious faith would enable that? What are the environmental implications of religious belief; could religious behavior have the potential to cause our ecological crisis? Could it be the solution? For answers, we will look to the writings of thinkers such as John Muir, Edward Abbey, Rachel Carson, Aldo Leopold, and Wendell Berry, as well as a number of lesser-known authors. We will read these authors alongside recent scholarship in the social sciences and humanities to understand how their thinking was influenced by social and environmental trends such as urbanization, industrialization, immigration, and globalization, and how religion has interacted with religious and anti-religious roots of contemporary environmental discourse.

This course also includes field trips, town meetings, interviews, survey work, and computer mapping labs.

This course satisfies the "Environmental Policy" requirement for the Environmental Studies concentration.

Satisfies one semester of the Division II requirement.

Hour: 1:10-2:25 MR HOWE

ENVI 312(F) Cultivating the Local: Place-based Productions of Food and Agriculture (Not offered 2012-2013)

This course explores the relationship between ideas and practices relating to nature, food, and agriculture, and specific formations of place, locality and region. Through this course, we will draw from and theoretical foundations for understanding the productions of place, nature, food and agriculture, and the interconnections among them. How do socially constructed ideas about nature, agrarian landscapes, and even particular environmental qualities such as soil and water, shape the formation of categories such as city, country, region and even of specific food products? Through what processes do particular food products come to be distinctly place-based? How do we understand this shift to place-based agriculture and food production, in the context of an industrialized and increasingly intricate global food system that has often homogenized and standardized food production? How is locality produced through food and agriculture, and how are food and agriculture produced through claims to locality and place? These interconnections, and the relations of power interwoven in them, are salient in contemporary praxis, and the course builds on grounded, conceptual understandings to explore contemporary phenomena such as the appellation d'origine controlee in France's wine producing regions, the development of Geographic Indication within the World Trade Organization, the formation of "Organic Uttarakhand" that is the subject of my own research, and the affective economies generated through artisanal food production. Through an interdisciplinary approach that brings together scholarship in anthropology, social and cultural history, sociology, and cultural geography, this course will foster expressive, grounded and critical understandings about the connections among nature, food, agriculture, and place-making in historic and contemporary formations of modernity.

Format: seminar. Requirements: Students are required to submit reading responses before each class, complete a take-home mid-term, and design and conduct an original research project that provide the basis for the final paper.


Satisfies one semester of the Division II requirement.

GALVIN

ENVI 328(S) Global Environmental Politics (Same as PSCI 328)

This seminar draws on the last few decades of international efforts to regulate the environmental commons. The process of negotiating and implementing international environmental treaties will be a core focus of the course, yet emphasis will also be placed on emerging non-state means of addressing global environmental challenges. A variety of challenges faced in global environmental policymaking (collaboration, compliance, participation by civil society and industry, incorporation of science, efficiency) will be examined through...
the study of several international regimes, including on climate change, endangered species, biodiversity, biosafety and chemicals management.

Format: seminar. Requirements: a research paper to be constructed in stages over the course of the semester and presented in class, and several shorter writing assignments; active participation in class discussions; participation in a negotiation simulation.

Prerequisites: ENVI 101 or permission of instructor. Enrollment limit: 19 (expected: 15). Priority given to Environmental Policy majors, Environmental Science majors, Environmental Studies concentrators and Political Science majors.

This course satisfies the “Environmental Policy” requirement for the Environmental Policy major and the Environmental Studies concentration.

Hour: 1:10-3:30 W

ENVI 329 The Global Politics of Development and Underdevelopment (Same as PSCI 327) (Not offered 2011-2013)

(See under PSCI 327 for full description.)

PAUL

This course satisfies the “Environmental Policy” requirement for the Environmental Studies concentration.

ENVI 331(S) Romantic Nature (Same as ENGL 331)

(See under ENGL 331 for full description.)

PAUL

This course satisfies the “Environmental Policy” requirement for the Environmental Studies concentration.

ENVI 346(S) Environmental Psychology (Same as PSYC 346)

(See under PSYC 346 for full description.)

SAVITSKY

This course satisfies the “Humanities, Arts, and Social Sciences” requirement for the Environmental Studies concentration.

ENVI 351(FS) Marine Policy (Same as MAST 351 and PSCI 319) (Offered only at Mystic Seaport.)

(See under MAST 351 for full description.)

HALL

Satisfies one semester of the Division II requirement. This course satisfies the “Environmental Policy” requirement for the Environmental Policy major and the Environmental Studies concentration.

ENVI 364(S) Instrumental Methods of Analysis (Same as CHEM 364)

(See under CHEM 364 for full description.)

C. GOH

This course satisfies the theory/methods requirement for the Environmental Science major and the “Natural World” requirement for the Environmental Studies concentration.

ENVI 371 The History of U.S. Environmental Politics (Same as HIST 371) (Not offered 2012-2013)

(See under HIST 371 for full description.)

MERRILL

ENVI 378(F) Nature/ Writing (Same as ENGL 378)

(See under ENGL 378 for full description.)

D.L. SMITH

ENVI 386(S) Environmental Policy and Natural Resource Management (Same as ECON 386 and ECON 518) (Q)

(See under ECON 386 for full description.)

JACOBSON

This course satisfies the “Environmental Policy” requirement for the Environmental Policy major and the Environmental Studies concentration.

ENVI 388 Urbanization and Development (Same as ECON 388 and ECON 517) (Not offered 2012-2013)

(See under ECON 521 for full description.)

S. SHEPPARD

This course satisfies the “Environmental Policy” requirement for the Environmental Studies concentration.

ENVI 397(F), 398(S) Independent Study of Environmental Problems

Individuals or groups of students may undertake a study of a particular environmental problem. The project may involve either pure or applied research, policy analysis, laboratory or field studies, or may be a creative writing or photography project dealing with the environment. A variety of nearby sites are available for the study of natural systems. Ongoing projects in the College-owned Hopkins Forest include ecological studies, animal behavior, and acid rain effects on soils, plants, and animals. Students may also choose to work on local, national, or international policy or planning issues, and opportunities to work with town and regional planning officials are available. Projects are unrestricted as to disciplinary focus. Students should consult with faculty well before the start of the semester in which they plan to carry out their project.

Prerequisites: approval by the director of the Center.

Hour: TBA

ENVI 402(S) Senior Seminar: Perspectives on Environmental Studies (Same as MAST 402)

The Environmental Studies and Maritime Studies programs provide students with an opportunity to explore the myriad ways in which humans interact with diverse environments at scales ranging from local to global. As the capstone course for Environmental Studies and Maritime Studies, this seminar will bring together students who will have specialized in the humanities, social studies and/or the sciences and will provide an opportunity for exchange across these disciplinary streams. Readings and discussion will be organized around the common theme of complexity theory, paying particular attention to means of strengthening the resilience of socio-ecological systems. Over the course of the seminar, students will develop a sustained independent research project on a topic of their choice.

Format: seminar. Evaluation is based on active participation, discussion leading, several smaller assignments and a research paper.

Prerequisites: ENVI 327 or permission of instructor. Enrollment limit: 19 (expected: 15). Priority given to Environmental Policy majors, Environmental Science majors, Environmental Studies concentrators and Political Science majors.

This course satisfies the “Environmental Policy” requirement for the Environmental Policy major and the Environmental Studies concentration.

Hour: 1:10-3:30 W

ENVI 422(S) Ecology of Sustainable Agriculture (Same as BIOL 422)

(See under BIOL 422 for full description.)

ART

This course satisfies the “Natural World” requirement for the Environmental Studies concentration.

ENVI 424T Conservation Biology (Same as BIOL 424T) (Not offered 2012-2013) (W)

(See under BIOL 424 for full description.)

J. EDWARDS

ENVI 478 Cold War Landscapes (Same as HIST 478) (Not offered 2012-2013)

(See under HIST 478 for full description.)

MERRILL

ENVI 493(F)-W31-494(S) Senior Research and Thesis

ENVP 493(F)-W31-494(S) Senior Research and Thesis

ENVS 405(F) Economic Geoscience (Same as GEOS 405)

(See under GEOS 405 for full description.)

COX

ENVS 493(F)-W31-494(S) Senior Research and Thesis