

rebellion and subsequent civil war. Likewise, Seamus Heaney (b. 1939), whose career has paralleled the modern "troubles" of Northern Ireland, has said that he seeks "symbols adequate to our predicament", and his poetry has embodied the deep tensions of his divided society and a humane and complex response to those divisions. While there will be some time spent clarifying the political, historical, and religious context in which each of the poets wrote, the main focus of the seminar will be an intensive study of the poems themselves, with special attention paid to the ways in which Heaney has embraced and transformed Yeats' earlier poetic version.

ENGL 49500 - Internship: English NLA

Allows students to combine literary study with on-site work experience under the guidance of a faculty supervisor. Internships require the approval of both the sponsoring agency and the faculty supervisor. Also available through the London Center. A maximum of 3 credits may be used to fulfill requirements for the English major. Prerequisites: Four literature courses; junior standing or above; permission of instructor. Variable credit. (IRR)

ENGL 49801 - Honors Project I LA

First course in a two-semester sequence of independent work on an individual project arranged by a student with a particular faculty member. Research, writing, and discussion culminating in a proposal for an honors thesis and an extensive annotated bibliography, defended before a department honors committee. Prerequisite: department approval. 3 credits. (F, Y)

ENGL 49802 - Honors Project II LA

Second course in a two-semester sequence of independent work on an individual project arranged by a student with a particular faculty member. Research, writing, and discussion culminating in an honors thesis of approximately 50 pages, defended before a department honors committee. May not be used as elective credit in the English major. Prerequisite: ENGL49801. 1-3 credits. (S, Y)

ENGL 49900 - Advanced Independent Study LA

Special research on an individual project arranged by a student with a particular faculty member. Final paper will be based on research in both electronic and print sources. Offered on demand only. A maximum of three credits may be used to fulfill requirements for the English major or minor. Prerequisites: Four literature courses and junior standing. 3 credits. (IRR)

2009/10

Environmental Studies Program

BACHELOR OF ARTS

Susan M. Allen-Gil, Associate Professor and Coordinator

The program in environmental studies offers two majors. Environmental studies focuses on the humanities, including implementation, values, and aesthetics, while providing a strong science background. Environmental science focuses on the sciences and prepares students to conduct original research designed to solve environmental problems in the context of social values and economic and political reality.

Major in Environmental Studies

Environmental studies is an interdisciplinary major dealing with questions and issues that pertain to the interaction between humanity and nature. No one discipline can possibly cover such a broad area for reflection; consequently, students in this major are required to develop considerable intellectual breadth. The core curriculum requires not only a significant amount of biology and chemistry but also history, economics, politics, and philosophy. In consultation with their advisers, students will construct an area of concentration. Students must submit the self-designed concentration to the registrar no later than the first semester of the junior year. A senior capstone experience (such as an experiential course, internship, research paper, or special project) will integrate the major and prepare graduates for graduate school or environmental careers.

Requirements for the Major in Environmental Studies — B.A.

Required courses

BIOL 15100	Environmental Science	4
BIOL 27500	Field Biology	4
CHEM 11700	Environmental Chemistry I	3
CHEM 11900	Environmental Chemistry Laboratory	1
ECON 28100	Environmental Economics	3
POLT 36600	Environmental Politics	3
HIST 27000	History of American Environmental Thought	3
PHIL 25000	Environmental Ethics	3
	Total, required courses	24

Restricted electives

BIOL 12000	Fundamentals of Biology II or	
BIOL 12200	Principles of Biology II	4
MATH 15500	Basic Statistical Reasoning or	
MATH 24300	Statistics or	
MATH 24400	Statistics with Probability	3-4
ENVS 45000	Capstone Seminar for Environmental Studies/Science Majors or	
ENVS 49000	Independent Study: Environmental Studies or	
ENVS 49500	Internship: Environmental Studies	4
	Total, restricted electives	11-12

Required self-designed concentration

See the environmental studies website for examples: <http://www.ithaca.edu/hs/depts/envstudies/>.

Three courses at any level	9
Four courses at level 3 or 4	12

Summary

Total, required courses	24
Total, restricted electives	11-12
Total, self-designated concentration	21
Electives	63-64
Total, B.A. in environmental studies	120

Major in Environmental Science

Environmental science is an interdisciplinary program that provides strong training in the sciences; a choice of focal areas in anthropology, biology, or chemistry; and a background in related courses in the humanities. Core science requirements include 43 credit hours of classes for science majors. In addition, the environmental science major develops a significant expertise in one of the three focal areas. Majors in both environmental studies and environmental science share in the senior capstone experience — a real, applied project — which integrates the experiences of students with different skills and training and prepares students for graduate school or environmental careers.

Requirements for the Major in Environmental Science — B.A. with a Concentration in Anthropology, Biology, or Chemistry
Science background courses

BIOL 12100	Principles of Biology I	4
BIOL 12200	Principles of Biology II	4
BIOL 15100	Environmental Science	4
BIOL 27500	Field Biology or	
PHYS 17200	Earth Science	4
CHEM 12100	Principles of Chemistry	3
CHEM 12400	Experimental Chemistry I	2
CHEM 22500	Experimental Chemistry II	2
CHEM 22100	Organic Chemistry I	3
CHEM 22200	Organic Chemistry II	3
CHEM 23200	Quantitative Chemistry	3
MATH 11100	Calculus I or	
MATH 10800	Calculus for Decision Making	4
MATH 24400	Statistics with Probability	4
	Total, science background	43

Cultural background courses

A minimum of two courses from each of the two lists below, with at least one in humanities and one in social sciences. Courses chosen to fulfill this requirement cannot be used to fulfill requirements for the focal area.

Select two of the following:

PHIL 25000	Environmental Ethics	3
POLT 36600	Environmental Politics	3
HIST 27000	History of American Environmental Thought	3

Select two of the following:

ANTH 10300	Biological Anthropology	3
ANTH 12900	Introduction to Global Studies	3
ECON 28100	Environmental Economics	3
ECON 28200	Natural Resource Economics	3
HIST 20300	Introductory Geography	3
HIST 27000	History of American Environmental Thought	3
POLT 12900	Introduction to Global Studies	3
POLT 36600	Environmental Politics	3
SOCI 30100	Technology and Society	3
SOCI 40200	Society and Nature	3
CMSP 31900	Writing as a Naturalist	3
	Total, cultural background courses	12

Integrative experience

ENVS 45000	Environmental Capstone	4
ENVS 40100	Environmental Seminar	1
	Total, integrative experience	5

Focused studies

Each student will fulfill requirements in one of the three focal areas listed below.

Biology

Select five of the following:

BIOC 35300	Biochemistry I	4
BIOC 35400	Biochemistry II	4
BIOL 20300	Invertebrate Zoology	4
BIOL 21400	Animal Physiology	4
BIOL 22700	Genetics	4
BIOL 27100	General Ecology	4
BIOL 27800	Environmental Health and Medicine	3
BIOL 28400	Field Ornithology	4
BIOL 30800	Animal Behavior	4
BIOL 35400	Cell Biology	4
BIOL 37800	Environmental Toxicology	4
BIOL 40500	Parasites and Vectors of Disease	4
BIOL 45200	Microbiology	4
BIOL 47300	Plant Physiology	4
BIOL 47900	Ecology of Aquatic Communities	4
	Total, biology focal area	19-20

Chemistry

CHEM 32400	Experimental Chemistry III	3
CHEM 32600	Experimental Chemistry V	3
CHEM 33100	Physical Chemistry I or	
CHEM 33200	Physical Chemistry II	3
PHYS 10100-PHYS 10200	Introduction to Physics I-II or	
PHYS 11700-PHYS 11800	Principles of Physics I-II	8
MATH 11200	Calculus II	4
	Total, chemistry focal area	21

Anthropology

ANTH 10400	Cultural Anthropology	3
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Select six of the following:

ANTH 26500	South American Archeology	3
ANTH 26900	Mesoamerican Archeology	3
ANTH 27500	North American Archeology	3
ANTH 31400	The Beastly Mirror	3
ANTH 37500	Environmental Anthropology	3
ANTH 38000	Medical Anthropology	3
ANTH 38800	Origins of Agriculture	3
	Total, anthropology focal area	21

Summary

Total, science background courses	41
Total, cultural background courses	12
Total, integrative experience courses	5
Total, focused studies courses	19-21
Electives	41-43
Total, B.A. in environmental science	120

Minor in Environmental Studies

The interdisciplinary minor in environmental studies at Ithaca College is administered by the School of Humanities and Sciences. The object of the minor is to (1) introduce students to the substance and complexity of environmental issues, and (2) explain what they must know before they can begin to participate in responsible discussion and policy making on any level.

Students pursue eight courses for an integrated inquiry into two related areas: area I: foundations in science — toward an understanding of and an appreciation for the principles of ecology, and thus a recognition of the necessity for integrity and stability in the natural environment; and area II: cultural solutions — an analysis of economic, political, cultural, and intellectual forces that motivate adverse human impact on the natural environment, and an encouragement of an “active hope” for solutions to environmental issues.

Requirements for the Minor in Environmental Studies

Area I: Foundations in science

(9-16 credits; minimum of three courses)

Minimum of one survey of biology from the following:

BIOL 12000	Fundamentals of Biology II	4
BIOL 12200	Principles of Biology II	4

Minimum of one environment survey course from the following:

BIOL 10400	Environmental Biology	3
BIOL 15100	Environmental Science	4
BIOL 27100	General Ecology	4
BIOL 27500	Field Biology	4
PHYS 17100	Earth: Evolution of a Habitable World	3
PHYS 17200	Earth: Evolution of a Habitable World with Lab	4

Minimum of one chemistry course from the following:

CHEM 10200	Contemporary Chemical Issues	3
CHEM 10500	Energy and the Environment	3
CHEM 11700	Environmental Chemistry	3
	Total, area I	10-11

Area II: Cultural solutions

12 credits; a minimum of four courses, of which at least one is in the humanities and one is in the social sciences. A list of approved electives is available from the environmental studies program coordinator.

Total, area I	9-10
Total, area II	12
Total, minor in environmental studies	22-23

Students should be aware that many of the courses in area II have prerequisites not required for the minor. Therefore, to successfully complete the minor, it is important to plan carefully and seek advice early from a minor adviser. Courses listed as seminar or tutorial apply only if the topic is appropriate to the minor and prior approval is granted by the environmental studies program coordinator.

Environmental Studies Courses

ENVS 20100 - Environmental Research: Introductory LA

An introductory course for students who desire hands-on research in environmental studies projects but who have limited experience with research. Research will typically involve participation in continuing projects, though new, student-proposed projects may be possible if the instructor approves. Students will work closely with a faculty member to guide their study. May be repeated twice for a maximum of 6 credits. Prerequisites: Sophomore standing and permission of instructor. 1-3 credits (F-S)

ENVS 20200 - Topics in Sustainability LA NS SS

An umbrella course with a different focus each semester. The course is integrative and allows students to experience sustainability firsthand through field experiences and service projects at Ecovillage and the local community, linked to the study of core principles and strategies in different areas of community sustainability. The courses taught within this umbrella include sustainable land use, teaching sustainability, fostering sustainable communities, sustainable energy systems, urban sustainability, and the sustainability movement. May be repeated for a maximum of 12 credits. Prerequisites: Sophomore standing. 3-4 credits. (F-S)

ENVS 20201, ENVS 20202 - Topics in Sustainability LA NS SS

An umbrella course with a different focus each semester. The course is integrative and allows students to experience sustainability first-hand through field experiences and service projects at Ecovillage and the local community, linked to the study of core principles and strategies in different areas of community sustainability. The courses taught within this umbrella include sustainable land use, teaching sustainability, fostering sustainable communities, sustainable energy systems, urban sustainability or the sustainability movement. May be repeated for a maximum of 12 credits. Prerequisites: Sophomore Standing. 3-4 credits. (F-S)

ENVS 20203 - Topics in Sustainability LA NS SS

An umbrella course with a different focus each semester. The course is integrative and allows students to experience sustainability firsthand through field experiences and service projects at Ecovillage and the local community, linked to the study of core principles and strategies in different areas of community sustainability. The courses taught within this umbrella include sustainable land use, teaching sustainability, fostering sustainable communities, sustainable energy systems, urban sustainability, or the sustainability movement. May be repeated for a maximum of 12 credits. Prerequisites: Sophomore standing. 3-4 credits. (F-S)

ENVS 38000 - Selected Topics in Field Studies LA NS

Field study courses provide a multiday field trip to an off-campus ecosystem. Each field study course emphasizes a unique regional topic, and students become familiar with the major geological and ecological events as well as the human impact on sustainability of the natural ecosystem(s). Students also learn to identify the predominant flora and fauna of the area. Student projects are expected to show considerable independent effort, background information,

analyses, and original synthesis. May be repeated for credit for field studies in different regions for a maximum three times or 12 credits. Prerequisites: A minimum of three courses in environmental studies or biology. 1-4 credits. (IRR)

ENVS 38001, ENVS 38002 - Selected Topics in Field Studies LA NS
Field study courses provide a multi-day field trip to an off-campus ecosystem. Each field study course emphasizes a unique regional topic and students become familiar with the major geological and ecological events as well as the human impact on sustainability of the natural ecosystem(s). Students also learn to identify the predominant flora and fauna of the area. Student products are expected to show considerable independent effort, background information, analyses, and original synthesis. May be repeated for credit for field studies in different regions for a maximum three times or 12 credits. Prerequisites: a minimum of three courses in environmental studies or biology. 1-4 credits. (IRR)

ENVS 38003 - Selected Topics in Field Studies LA NS
Field study courses provide a multiday field trip to an off-campus ecosystem. Each field study course emphasizes a unique regional topic and students become familiar with the major geological and ecological events as well as the human impact on sustainability of the natural ecosystem(s). Students also learn to identify the predominant flora and fauna of the area. Student products are expected to show considerable independent effort, background information, analyses, and original synthesis. May be repeated for credit for field studies in different regions for a maximum three times or 12 credits. Prerequisites: a minimum of three courses in environmental studies or biology. 1-4 credits. (IRR)

ENVS 40100 - Environmental Seminar LA NS
Seminars, discussion, and readings in environmental studies and science. Required of environmental science majors. Prerequisites: Junior standing; environmental studies or environmental science major. Pass/fail only. 0.5 credits. (F, S)

ENVS 45000 - Capstone Seminar for Environmental Studies/Science Majors LA
An integrative course that encourages majors to apply previously learned ideas and concepts to a specific area of environmental inquiry or a particular environmental problem. The specific subject matter of the course is determined by the professor teaching it, but common to all capstone seminars is class involvement in a rigorous research agenda, drawing on methodologies from natural sciences, social sciences, and humanities. Course topics generally focus on local or regional environmental issues, showing their interconnections to global environmental concerns. Students are encouraged to move out of the classroom to conduct research projects. Public presentation of research findings is strongly encouraged. Prerequisites: Junior standing or above; environmental studies or environmental science majors. 4 credits. (F-S,Y)

ENVS 49000 - Independent Study: Environmental Studies LA
The program of study may be a reading program of materials of special interest to the student, or one involving developing and executing a research project on a specific topic. Reading or research is undertaken under faculty direction. Prerequisites: Permission of instructor. 1-4 credits. (F-S,Y)

ENVS 49500 - Internship: Environmental Studies NLA
Permits students to explore environmental studies through a variety of work experiences. Students are expected to submit, as part of their course obligations, a thorough written evaluative report based on their experiences. Internships may be taken at national, state, and local levels, and in London under the auspices of the Ithaca College London Center. Prerequisites: Permission of instructor; completion of three-quarters of an environmental studies major or minor. 1-12 credits. (F-S,Y)

Department of History

BACHELOR OF ARTS

Zenon Wasyliv, Professor and Chair

History is the study of the successes and failures of humanity. It is the study of the political, economic, philosophical, theological, diplomatic, sociological, scientific, and military activity of humanity and of individual men and women, from the dawn of civilization to the present. For this reason, the study of history is the best method by which to comprehend the complexities of the modern world. Students who major in other disciplines find history an invaluable field in which to minor. Both history majors and history minors have gone into a variety of professional and graduate careers, such as law, business, international business, governmental service, politics, radio-television and performing arts, archaeological and museum work, teaching, and the helping professions.

Requirements for Honors in History

All students have the opportunity to graduate with honors in history. History majors must have at least a 3.50 GPA in the history major and a 3.00 GPA or better overall. They must also complete and defend an honors thesis. Non-history majors must have taken 21 credits of history with a GPA of at least 3.50 and have an overall GPA of at least 3.00. Students may enter this program in the junior year, but not later than the first two weeks of the senior year.

All honors candidates must have a sponsor and complete, to the satisfaction of the sponsor and the department chairperson, a department honors form giving the title and nature of the project. Two additional faculty members shall serve with the faculty sponsor as an examining committee. The project may be a new study or it may reflect substantial extension or reworking of topics developed in a course. The finished thesis must be defended and receive the favorable recommendation of the examining committee by the 10th week of the candidate's final semester and be presented in open session before the history faculty. Honors are awarded only upon recommendation of the history department faculty.

Advanced Placement

Advanced placement (AP) credit is accepted under the following conditions:

1. A student must have an AP test score of 4 or higher to receive course-specific credit (e.g., HIST 11100, HIST 11200, or HIST 10200). If a student receives course-specific AP credit, he or she cannot also receive credit for taking the course.
2. A student with an AP test score of 3 may receive unspecified history credit (i.e., general credit without a particular designation), which may be used to fulfill distribution requirements. AP test scores below 3 receive no credit.
3. AP credit does not reduce the number of credits required by the major or minor (including social studies and social studies with teaching option — see below).

Recommendations

The Department of History strongly recommends that each history major, in consultation with his or her adviser, develop a course of study providing a balance between the various historical eras.

It also recommends that history majors take a minimum of three related courses in another humanities department (e.g., English, philosophy, art history) and in a social science department (e.g., economics, anthropology, politics) that serve to complement the student's historical studies and provide insights from another discipline.

The history department encourages its majors to declare a minor in another discipline as a means of broadening their historical understanding and general educational background.

Students may take up to 18 credits a semester at no extra expense, allowing even greater variety within the major, double majors, and major-minor combinations.

Requirements for the Major in History — B.A.

Credits in the department

History majors must complete a minimum of 39 credits (i.e., 13 courses) in history, including the following:

Two courses of the survey of United States history [HIST 11100-HIST 11200]*	6
Two courses of the survey of Western civilization [HIST 10100-HIST 10200] or world civilization [HIST 18100-HIST 18200].* A sequential combination of Western civilization and world civilization [HIST 10100 and HIST 18200 or HIST 18100 and HIST 10200] may be substituted for this two-course sequence.	6
A minimum of two courses in European history at level 2 or above	6
A minimum of two courses in United States history at level 2 or above	6
A minimum of two courses in global history at level 2 or above	6
A minimum of three other history electives	9

Of these 27 history elective credits, 15 must be at level 3 or above; of these 15 credits, 6 credits must be either tutorials [HIST 49100, HIST 49200, HIST 49300] or seminars [HIST 48100, HIST 48200, HIST 48300].

*Under unusual circumstances and with the consent of the student's adviser and the department chair, appropriate substitutions for HIST 10100-HIST 10200, HIST 11100-HIST