ENVIRONMENTAL STUDIES (ENVS)

ENVS 10400 Intro Gardening & Permaculture (NLA)
Hands-on course examining the intersection of gardening with social, economic, and biological systems. Readings combined with experiential projects including field trips, with a focus on building foundational skills through work in the IC student garden. (F, IRR)
Attributes: ESTS
1 Credit

ENVS 11000 The Environmental Crisis: Causes and Solutions (LA)
Course provides basic literacy to understand the current environmental crisis, covering such topics as energy, population growth, climate change, biodiversity loss, resource exploitation, food production, and toxics. Course also investigates potential solutions to minimize impact on the personal, regional, national, and international scales. (S, Y)
Attributes: ABSS, LMSP, LSCO, SC, SO, TQSF, TWOS
3 Credits

ENVS 11200 Sustainability Principles and Practice (LA)
This course is designed to introduce students to the history and principles of sustainability as a new approach to addressing complex societal and environmental issues. The class will use a broad definition of sustainability, considering ecological, social, economic, political issues, and community and individual health. These components will be examined using a systems perspective that stresses their interrelatedness. (F-S, Y)
Attributes: ABSS, LMSP, LSCO, SC, SO, TPJ, TQSF
3 Credits

ENVS 11900 Introduction to Environmental Humanities (LA)
Introduction to the ways that humanistic disciplines (literature, religion, philosophy, history, art history) contribute to an understanding of human-environment relationships. Explores how human values toward the natural world are developed and expressed; the importance of language and storytelling in guiding human attitudes and behavior toward the environment; and the ways that the humanities can inform the theory and practice of the sciences and social sciences. (F-S)
Attributes: ABSS, HM, TQSF
4 Credits

ENVS 12000 Environmental Sentinels (LA)
Field-based course that focuses on natural history, biodiversity, and development of the ability to perceive subtle changes in the environment. Primitive technology skills (friction fires, natural rope, medicinal plants, tracking, etc.) and field identification will be emphasized. Blending these skills and the approaches of deep wilderness awareness, students develop an ability to read land-use history and an appreciation for modern ecological science and natural resource management. Intended for environmental science and studies majors. (F-Y).
Attributes: ABSS
4 Credits

ENVS 12100 Introduction to Environmental Science and Technology (LA)
This course will focus on the scientific principles and technological advanced fundamental to understanding human impact on the environment. We will investigate how technology contributes to as well as reduces our impact on the environment. Topics include global climate change, water quality and availability, air quality, sustainable food production, biodiversity loss, and chemical and biological waste remediation. We will tied together the political, social, and economic aspects of environmental studies using a global perspective. (S, Y)
Attributes: ABSS
4 Credits

ENVS 17500 Introductory Environmental Seminar (LA)
Seminar course exposes students in the environmental studies or science program to environmentally relevant research, examples of careers in the environmental field, and opportunities to meet local and regional professionals. Pass/fail only. (F-S)
Attributes: NS
1 Credit

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 Prerequisites: Sophomore standing and permission of instructor. (F-S)
Attributes: UND
1-3 Credits

ENVS 20200-20203 Topics in Sustainability (LA)
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 twelve credits. Prerequisites: Sophomore standing. (F-S)
Attributes: LMSR, NS, SS
3-4 Credits

ENVS 20400 Rainforests, Reefs, and Ruins: Belize Case Study (LA)
Focus on the environment and culture in Belize as a case study to explore topics including: structure and function of tropical ecosystems and Mayan civilization, factors leading to high biodiversity in the tropics, importance of biodiversity to human civilization, and threats to these ecosystems. Intended to prepare students for ENVS 20500. Prerequisites: Sophomore standing and permission of instructor. (F-Y)
Attributes: ENSS, ESSS, LAEL, NS, SS
3 Credits

ENVS 20500 Belize Immersion (LA)
Two-week cultural immersion course in Belize. Activities include deep jungle overnight trips, home stays with Belizean families, and service learning. Students are responsible for additional course fees for study abroad component. Course may be used to fulfill ENVS cultural immersion requirement. Prerequisites: ENVS 20400; sophomore standing; permission of instructor. (Y)
Attributes: LAEL, LMSP
1 Credit
ENVS 21200 Conservation Biology (LA)
Introduction to principles of conservation biology issues used to understand and reverse the current worldwide species loss. Examination of case studies of local and global conservation efforts to combat this species loss. Lab exercises include field trips. Lecture: Three hours. Laboratory: Three hours. This course is cross-listed with BIOL 21200; students cannot receive credit for this course and BIOL 21200.
Prerequisites: Any 10000-level ENVS or BIOL course. (IRR)
Attributes: ABSS, ENHU, ESHU, HM, TQSF
3 Credits

ENVS 22000 Human-Environment Geography (LA)
This course uses natural science, social science, and humanistic approaches to study the complex relationships between human physical and cultural systems through time and space. This course has a strong focus on the perspectives and methods current in human-environment geography, and incorporates exercises in asking and answering geographical questions. Students will examine the relationships between ecosystems and food production, urban and rural relationships, the role of corporations, globalization, warfare, and religion. Prerequisite: Sophomore standing. (F,Y)
Attributes: ABSS, ENSU, NS
4 Credits

ENVS 22100 Interdisciplinary Physical Science (LA)
Physics provides insight into how matter and energy interact and chemistry addresses transformations and interactions of substances. This course examines physics and chemistry from an environmental perspective while retaining the critical and analytical thinking skills of those disciplines. Lecture/discussion: three hours. Laboratory: three hours. Prerequisite: ENVS 12100. (S,Y)
Attributes: 2A, NS
3 Credits

ENVS 23000 Earth System Science (LA)
Lab-based course that takes a whole-systems approach to understanding the physical, chemical, biological, and human interactions that determine the past, current, and future states of the earth. Students will describe key components, interactions, and concepts that characterize the earth system. The course emphasizes the generation and analysis of quantitative data. Prerequisite: ENVS 12100. (F,Y)
Attributes: ABSS
4 Credits

ENVS 23500 Religion and Nature (LA)
Explores interrelationships between aspects of the natural world and the beliefs and practices of diverse world religions. Topics may include sacred space and time, natural symbols, animals and animality, and religious environmentalism. Students cannot receive credit for this course and RLST 23500. Prerequisites: One liberal arts course in any of the following departments: ANTH, ARTH, CMST, CLTC, CSCR, ECON, ENED, ENGL, GERD, HIST, JWST, LGST, PHIL, POLT, PSYC, RLST, SOCI, WGST, WRTG. (E)
Attributes: ABSS, ENHU, ESHU, HM, TMBS, TQSF
3 Credits

ENVS 24000 Environmental Archaeology: Human Impact in the Past and Present (LA)
This course examines the interrelationship between humans and their environments from a long-term archaeological perspective. This course emphasizes archaeological, geological, and botanical methods and analytical techniques used for long-term environmental reconstruction. Cross-listed as ANTH 24000. Students may not earn credit for both ANTH 24000 and ENVS 24000. Prerequisite: ANTH 10400 or ANTH 10700. (S,Y)
Attributes: ABSS, ENSU, ESSS, SS
3 Credits

ENVS 24300 Sustainable Energy: Powering the World (LA)
Survey of energy. Topics include solar, wind, geothermal, electricity, fossil fuels, heat transfer, and the economic and environmental opportunities created by energy efficiency and sustainable energy systems. The course culminates with a final Energy Design Project. Cross-listed as PHYS 24300. Students may not earn credit for both ENVS 24300 and PHYS 24300. Prerequisite: MATH 110 or placement in math group 1 or 2. (S,Y)
Attributes: ABSS, QL, SC, TQSF
4 Credits

ENVS 24500 Environmental Ethics (LA)
A critical examination of various moral problems raised when considering environmental issues. Questions regarding the moral status of animals, future generations, and the environment as a whole are explored. Also taken up are the moral aspects of famine relief, population control, and resource use. These issues and others generate challenging and fundamental questions of moral philosophy: What is the basis of obligation? Do animals have rights? What does it mean to say something is intrinsically valuable? Students cannot receive credit for both this course and PHIL 25200. Prerequisites: One liberal arts course in any of the following departments: ANTH, ARTH, CMST, CLTC, CSCR, ECON, ENED, ENGL, GERD, HIST, JWST, LGST, PHIL, POLT, PSYC, RLST, SOCI, WGST. (Y)
Attributes: ABSS, HM, LMEL, LSCO, TQSF
3 Credits

ENVS 26200 The History of Commodities in the Americas (LA)
Examines the relationship of commodities to the larger fabric of Atlantic world history since the 15th century, exploring how the material world shapes social, political, and economic behaviors and attitudes. Considers how historians, scientists, economists, and other social scientists, have interpreted the social, political, environmental, and economic significance of particular commodities. Central to the course is a focus on how commodities have shaped the relationship between Latin America, the Caribbean, and the United States. This course addresses material goods (sugar, cod, fertilizer, etc.) as commodities, as well as the history of human trafficking, from the Trans-Atlantic Slave Trade to modern day slavery. Cross-listed with HIST 26200; students cannot take both ENVS 26200 and HIST 26200 for credit. Prerequisites: Sophomore standing or above. (Y)
Attributes: ABSS, ENHU, ESHI, ESHU, HM, TQSF
3 Credits
ENVS 27000 History of American Environmental Thought (LA)
A pervasive theme in the occupancy of North America is the changing and often conflicting perception of the environment. This course focuses on the history of environmental ideas, values, behaviors, and attitudes. Topics include capitalist, Romantic, and ecological thinking; the goals of conservation and preservation; recent rethinking of primitive experience and the idea of wilderness; and today’s dialogue between mainstream environmentalism and deep ecology, the latter including ecofeminism, sustainable development, and biodiversity. Students examine the profound impact each of the paradigms has had on human-environment relations in America. This course counts toward the U.S. history requirement for history department majors. Cross-listed with HIST 27000; students cannot receive credit for both HIST 27000 and ENVS 27000. Prerequisites: One course in the humanities or social sciences; sophomore standing. (Y)
Attributes: ABSS, ENHU, ESHI, ESHU, H, HM, TQSF
3 Credits

ENVS 27100 Global Environmental History (LA)
An introduction to the field of global environmental history that explores nature’s role in world history and the ways human systems of energy, agriculture, resource extraction, trade, and transportation have affected the environment over time and vice versa. Primarily focuses on the historical impacts of environmental change around the world since the start of the industrial revolution (c. 1750). Cross-listed with HIST 27100; students cannot receive credit for both ENVS 27100 and HIST 27100. Prerequisites: Sophomore standing or above. (IRR)
Attributes: ABSS, ENHU, ESHI, ESHU
3 Credits

ENVS 27500 Intermediate Environmental Seminar (NLA)
Designed to help students make conscious choices to direct their academic activities at Ithaca College and to begin to consider post-graduation goals. Pass/Fail only. Prerequisites: ENVS 17500; sophomore standing; restricted to Environmental Science and Environmental Studies majors. (S,Y)
1 Credit

ENVS 28100 Environmental Economics (LA)
Introduction to the study of environmental problems with the perspective, analytical ideas, and methodology of economics. Emphasis is placed on the analysis of environmental policy. Topics include the relationship between economic activity and environmental quality, the role of economic analysis in environmental policy decisions, economic analysis of pollution control strategies, and economic analysis of environmental policy in both the United States and the international community. Cross-listed as ECON 28100; students cannot receive credit for both ECON 28100 and ENVS 28100. Prerequisites: ECON 12200. (S)
Attributes: 1, ENSS, ESSS, H, SS
3 Credits

ENVS 30100 Environmental Research: Intermediate (LA)
For intermediate students who desire hands-on research in issues relating to sustainability and the environment. Research can involve participation in continuing faculty research projects or in new, student-proposed projects. Students will work closely with a faculty member to guide their study. Prerequisites: ENVS 20100 and permission of instructor. May be repeated for a total of (F,S,Y)
1-3 Credits

ENVS 32200 Environmental Methods: Sampling, Surveying, Statistics and Analysis (LA)
This course provides students with field-based, real-world applications of sampling, surveying, and statistical analysis techniques, with an emphasis on environmental problem-solving skills. This class covers both qualitative and quantitative analytical techniques. Lecture/discussion: Three hours. Laboratory: Three hours. Prerequisites: ENVS 12100 or ENVS 13000; ENVS 22000; MATH 14500, MATH 14400 or MATH 21600. (FY)
Attributes: NS
4 Credits

ENVS 33100-33102 Topics in Geography and Planning (LA)
Intermediate course with a different focus each semester. Topics include demographics, city and regional planning, land use, and topography. May be repeated for maximum of eight credits. Lecture/discussion, may include a three-hour laboratory. Prerequisite: ENVS 22000. (IRR).
Attributes: ENSS, ESPE, SS
3-4 Credits

ENVS 33300 International Environmental Policy (LA)
This course examines an environmental issue in depth (climate change, air pollution, fisheries, endangered species, human population, water management) and the international policy negotiations around that issue. Students will attend international environmental negotiation sessions; additional course fees apply for travel. Prerequisites: Junior standing; permission of instructor. (IRR)
Attributes: GERM, UND
3-4 Credits

ENVS 34000-34002 Topics in Pollution (LA)
Intermediate course with a different focus each semester. Topics may include environmental toxicology, environmental health and medicine, aquatic pollution, pollution remediation, hazardous waste, or pollution policy. May be repeated for maximum of eight credits. Prerequisites: ENVS 12100 and junior standing. Lecture/discussion, may include a three-hour laboratory. (IRR).
Attributes: ESTS, NS
3-4 Credits

ENVS 35000-35002 Topics in Natural Resources and Ecology (LA)
Intermediate course with a different focus each semester. Topics include ecological issues associated with practical conservation or management practices, such as ecosystem ecology, conservation biology, or biology of invasive species. This course may be repeated for credit when topics vary, for a maximum of eight credits. Prerequisites: Three courses in environmental studies or biology. Lecture/discussion, may include a three-hour laboratory. (IRR).
Attributes: ESTS, NS
3-4 Credits

ENVS 36000-36002 Topics in Environmental Humanities (LA)
Intermediate course with a different focus each semester. Topics include literature, philosophy, art, mythology, history, landscape design, and architecture from around the world. By exploring the myriad ways human beings have viewed nature, students will gain a better grasp of why human-environment interactions are in crisis and what it means to be human in such a world. Prerequisites: Three humanities courses, WRTG 10600 or equivalent, and sophomore standing. (IRR)
Attributes: ENHU, ESHU, HU, WI
3 Credits
ENVS 36600 Environmental Politics (LA)
Examines environmental protection (and destruction) from numerous political perspectives and in relation to various political ideologies. Looks at policy-making aspects of environmental protection. Traces the development of national and international environmental movements. Considers environmental issues in terms of race, gender, and class politics. Prerequisites: Sophomore standing. Cross-listed with POLT 34660; students cannot receive credit for both POLT 36600 and ENVS 36600. (Y)
Attributes: ABSS, ENSS, ESPE, LMEL, LSCO
3 Credits

ENVS 37000 Topics: Earth Science (LA)
Intermediate course with a different focus each semester. Topics include hydrology, biogeochemistry, soil science, and agriculture. May be repeated for maximum of eight credits. Lecture/discussion, may include a three-hour laboratory. Prerequisite: Three courses in environmental studies and sciences, biology, chemistry, or physics. (IRR).
Attributes: NS
3-4 Credits

ENVS 37001-37002 Topics in Earth Science (LA)
Intermediate course with a different focus each semester. Topics include hydrology, biogeochemistry, soil science, and agriculture. May be repeated for maximum of eight credits. Lecture/discussion, may include a three-hour laboratory. Prerequisite: Three courses in environmental studies and sciences, biology, chemistry, or physics. (IRR).
Attributes: NS
3-4 Credits

ENVS 38000-38003 Selected Topics in Field Studies (LA)
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 twelve credits. Prerequisites: A minimum of three courses in environmental studies or biology. (IRR)
Attributes: ENSS, ESSS, NS
1-4 Credits

ENVS 40200-40201 Environmental Research: Advanced (LA)
For advanced students who desire hands-on research in issues relating to sustainability and the environment. Research can involve participation in continuing faculty research projects or in new, student-proposed projects. Students will work closely with a faculty member to guide their study. Prerequisites: ENVS 30100 and permission of instructor. May be repeated for a total of eight credits. (F,S,Y)
1-4 Credits

ENVS 49000 Independent Study: Environmental Studies (LA)
A reading program of materials of special interest to the student, undertaken under faculty direction. Prerequisites: Permission of instructor. (F-S,Y)
Attributes: UND
1-4 Credits

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-(F-S,Y)
1-12 Credits