Ithaca College Sustainability Content Courses – Summer 2011

(courses as listed in 2011-2012 U/G Catalog and Homer Connect for Fall 2011)

All-College Educational Opportunities

(IC2) Ithaca College Integrated Curriculum Course (ICIC)

ICIC 30000 **Social Entrepreneurship in Action: Launching a Green Living Magazine for Tompkins County**
What does it take to start an enterprise with a social conscience? In this 4-credit course, students will examine the magazine industry from both a business and editorial perspective. With guidance from the instructors, as well as the expertise of guest professors from Ithaca College, environmentalists, and professionals from the publishing world, students will help to create, market, and distribute the first issue of a professional, print-based, "green living" magazine for Tompkins County. U/G: 4

Ithaca Seminar (ICSM)

ICSM 10500-11 **A Hot Topic but the Devil's in the Details**
Just as the science of global warming seemed to be settled, leaks of climate-change scientists' e-mails seemed to put it into doubt. We will look at how to evaluate the science and the media coverage of global warming, as well as the proposed solutions to it. We will also explore the ramifications of both action and inaction, especially when considering how to move towards a sustainable society. U/G: 3

ICSM 10500-15 **Sex, Death and Migration**
In this course global social change and diversity will be explored in terms of age, gender, class, race, and ethnicity. We will apply knowledge of demographic processes such as mortality, fertility and migration to examine current issues such as population aging, immigration, health disparities and environmental sustainability. U/G: 3

ICSM 10500-22 **Coming of Age in an Age of Limits**
Since the late 18th century, the economic system of the Western world has been based on the principle of growth without limits. When this idea of growth became harnessed to fossil-fuel energy sources, life on earth was utterly transformed. During the past 200 years it has often seemed as if unlimited growth were possible. Yet the earth is essentially a closed system, and the laws of physics and ecology demonstrate that limitless growth is a very problematic idea. This course will draw on a variety of readings from philosophy, history, ecology, economics, and popular culture to explore the evolution of the idea of economic growth, the ways that people have dissented from this idea, and the costs and benefits of living in a world where growth is an article of faith. U/G: 3

ICSM 11800-02 **Facing Nature**
Since America's early settlement by Europeans, our views of the rich natural world that is our home have been complex, even contradictory. Its beauty, mystery, and power have elicited a sense of awe, but it has also fueled a sometimes destructive drive to use and improve nature to serve human needs. We will explore the tough questions raised by this ambivalence: What does nature mean to us? Does nature have needs of its own that we should respect? What changes must we make to live in better harmony with the natural world? We will seek answers by studying an interdisciplinary range of texts by American and Native American writers who have grappled with the meaning of nature and its relationship to the human experience. This course will be writing intensive. U/G: 3

ICSM 11800-03 **Tribes and Scribes**
This seminar considers the lives of American Indians today as revealed in stories they tell about their history in North America, their ongoing relations with mainstream culture, and the cultural traditions and values that have sustained them since the arrival of Columbus over 500 years ago. We will focus on the American Indian future such as, how do Native Americans respond to the challenge of "living in two worlds"? How do they resist both stereotyping and mythologizing by a mainstream culture? What relation to the natural world are they committed to, and how do they envision our common environmental future? This course will be writing-intensive. U/G: 3

School of Business

MBA Program (BGRD)

BGRD 66000 **Sustainable Practices in Operations and Technology**
An integrated view of the operations management in organizations from a senior management application perspective. Covers topics such as sustainable development, lean operations, business modeling, theory of constraints, life cycle design, six sigma, and advanced technologies. Focuses on the application of these concepts to problem-solving and case analyses. Graduate Credits: 3

Business – Interdisciplinary (BINT)

BINT 10100 **World of Business**
Surveys the functional areas of business -- finance, accounting, human resources, production, marketing, and international business -- and reviews the socioeconomic, political, and legal factors that influence business decisions in a global economy. In addition, the course links the challenges faced by first-year college students with similar demands on management in business settings. Topics covered include time management, goal setting, stress management, career development, and other topics related to student and career success. Open to first-year students in business and first-year exploratory majors only. U/G: 3

BINT 19500 **FLEFF/BUS: Sustainability and Business Decision-Making**
While public policy makers may be viewed as stewards of environmental sustainability, we explore how the many day-to-day decisions made within the business world have profound consequences for the environment and the people who inhabit that environment. Students will be assigned a number of films and events to attend during the Finger Lakes Environmental Film Festival and will have the opportunity to choose from a variety of Festival films and events as well. U/G: 1

BINT 19700 **The Greening of Corporate Management**
The course aims to create an awareness of the extent of environmental degradation and will examine different approaches to green corporate management. Concepts of environmental ethics will be introduced. The course will be carried out with a combination of lectures, discussions, and select movies that will be shown during the Finger Lakes environmental Film Festival. Students will be graded on a Pass/Fail basis. Attendance, class discussion, and an essay will be the basis of grading. Three seperate two and one-half hour class sessions will be held in addition to screening times. The class will meet once prior to the start of the festival, during the festival and once after the end of the festival. U/G: 1

General Business (GBUS)

GBUS 20300 **Legal Environment of Business I**
Introduction to the American legal system and the legal environment in which businesses operate. Topics covered include the judicial process; constitutional law and issues of discrimination and diversity; criminal law; intentional torts and negligence; product liability; the law of contracts; and selected current topics in law. Emphasis is on case analysis, including the social, ethical, political, and economic considerations of the impact of law on business and society. Emphasis is also placed on the application of legal concepts to solve problems. U/G: 3

GBUS 20400 **Legal Environment of Business II**
Continuation of GBUS 20300 Legal Environment of Business. This course focuses on business organizations and the regulation of business. Topics covered include agency and issues in employment law, forms of business organizations, partnerships, corporations, securities regulation, environmental law, antitrust law, corporate social responsibility, the Uniform Commercial Code, debtor-creditor relations, and selected current topics in law. Emphasis is on case analysis, including the social, ethical, political, and economic considerations of the impact of law on business and society. Emphasis is also placed on the application of legal concepts to solve problems. U/G: 3

School of Business, continued:

Human Resource Management (HRM)

HRM 30200 **Applied Ethical Issues in Management**

Examines concepts, issues, and tools related to the management of business ethics in organizations. Analysis of ethical problems and application of a process of moral decision making to ethical problems in business. Examination of ethical, social, and political issues confronting modern organizations from internal and external stakeholders' viewpoints. U/G: 3

Legal Studies (LGST)

LGST 32000 **Marketplace Regulation and Consumer Protection**

Discussion and in-depth study of the role of government in protecting the consumer and regulating marketplace practices. Seminar topics include the costs and effectiveness of the administrative law process, case studies of federal regulatory agencies, and recent developments in marketing and product liability law. U/G: 3

LGST 30700 **Environmental Law and Policy**

A survey of environmental law and the policies and goals of key federal environmental statutes. Students will examine the role of the Environmental Protection Agency in implementing and enforcing environmental standards, as well as significant case law developments. U/G: 3

Marketing (MKTG)

MKTG 31200 **Principles of Marketing**

Study of concepts, activities, and decisions related to the exchange process, management of the marketing mix, and development of marketing strategy for profit and not-for-profit organizations. Addresses the sociocultural, legal and regulatory, technological, economic, ethical, political, and social responsibility dimensions to marketing in the global environment. U/G: 3

School of Communications

General Communications (GCOM)

GCOM 20000 **Minicourse: Media for Social Responsibility**

Students learn synthesize complex information about a particular topic of global social consequence (such as pollution, illiteracy, obesity, de-forestation, malnutrition) and develop proposals for actual media companies to address these topics and effect positive change. The course format includes a leading expert outlining the importance of the issue and its relation to media's social responsibility in a keynote address, case studies of the ways in which this topic has already been addressed in the media, and small teams of students led by industry professionals who have a few hours to develop and "pitch" their idea in a final competition. Students will demonstrate their grasp of the social impacts of the problem and media's social responsibility, their ability to apply message design and media selection strategies, and their knowledge of media economics and programming formats. U/G Credits: 1

GCOM 29317 **Minicourses in Communications: Media and The Environment: Water Issues**

This course will bring you into the world of water through viewing documentaries, animations, and PSAs about water issues. You will develop concepts and approaches for creating media that can potentially help expand water awareness among diverse people, including here at Ithaca College. U/G Credits: 1

Strategic Communication (STCM)

STCM 12300 **Systems Thinking and Design**

An introduction to the perspectives and approaches of systems science and design, particularly emphasizing the

usefulness of their combination in planned change in organizations. Sample topics include: thinking across and beyond disciplines; systems types and views; complexity; rational and creative (out-of-control) processes; and the consequences of innovation. Most assignments and projects are set in the context of organizational communication and learning, but their relevance and value extend well beyond. U/G Credits: 3

STCM 37500 **Environmental Communication**
An exploration of the relationship between organizations and the biophysical environment (viewed here as a stakeholder) and the communication methods and strategies that organizations use to inform and persuade audiences to change their environmental perspectives and practices. Students will design communication campaigns for real or hypothetical organizations (for-profit, not-for-profit, grassroots organizations) and analyze case studies that exemplify both ethical and unethical responses to environmental issues and concerns. Prerequisites: Junior standing or permission of the professor. U/G Credits: 3

School of Health Sciences and Human Performance

Exercise and Sports Sciences (EXSS)
EXSS 36400 **Complementary and Alternative Therapies**
Survey of complementary and nontraditional wellness and therapeutic modalities. Emphasis is placed on bodywork and mind-body interventions, including somatics, biofield therapeutics, and energy medicine. Alternative systems and philosophies of medical practice, the nature of practitioners, and dietary supplements are also covered. Scientific and nonscientific rationales for modalities are critically examined. U/G Credits: 3

Health (HLTH)
HLTH 20100 **Food and Society**
Explores the significance of food in human life across time and across cultures. Examines the relationship of food to sociocultural, psychobiological, and ecological aspects of human life. Determinants of food choices, food systems, and socioeconomic and ecological implications are explored. Students emerge with insight and appreciation for the role of food as a means of self-expression and social exchange. U/G Credits: 3

HLTH 21300 **Wellness: Multicultural Perspectives on Health and Healing**
An overview of the dynamic nature of the wellness movement. Its historical, social, political, cultural, and economic variables are critically examined. A wide range of wellness modalities, including those that fall under manual, mind-body, herbal, movement, and bioelectrical fields of practice, are included. Cross-cultural paradigms of health and healing are examined and compared. Prevention of chronic disease and health promotion are integrated into the concept of wellness, and disease etiologies and treatments are presented from multiple perspectives. The implications of and opportunities for prevention specialists in schools and communities are emphasized. U/G Credits: 3

HLTH 25000 **International Health Issues**
Study of public health and health care issues across national borders and how they affect the entire globe, including the future health of the planet. Public health and health care delivery in certain nations are also studied. U/G Credits: 3

HLTH 33510 **Legal and Ethical Issues in Health Policy**
An examination of legal and ethical issues related to health care. Topics include the equitable distribution of scarce resources, the relationship between individual consumers and powerful (frequently for-profit) third-party payers, and the government's role at all levels in regulating health care and protecting the public from potentially fraudulent or abusive providers. U/G Credits: 3

HLTH 36100 **Front-Page Public Policy: Policy and Epidemiology**
History and theories of the public health perspective. Detailed analysis of major contemporary public health issues in the context of political, economic, and social factors. Theories and uses of epidemiology as a descriptive, analytical, and political tool of public health. Community, regional, national, and/or international public health policies are studied. Attention is paid to current public health issues in the news. U/G Credits: 3

HLTH 48700 **Multicultural Issues in Health**
Addresses the issues of ethnicity, culture, and race as they relate to health. Examines a variety of intercultural issues, including power and oppression, and how they affect the lives of children, adults, and families living in the United States. U/G Credits: 3

HLTH 48900 **Environmental Dimensions in Health Education**
Explores current environmental problems and issues related to public health. Topics include health risk assessment, management, and communication: sources of pollution, environmental and health effects of war, food safety and other environmental health areas. Emphasis placed upon individual and community responsibilities for promotion of environmental health. Format for course will include lecture and small group seminars. U/G Credits: 3

Health - Graduate (HPEG)
HPEG 58900 **Environmental Dimensions in Health Education**
Explores current environmental problems and issues related to public health. Topics include health risk assessment, management, and communication; sources of pollution; environmental and health effects of war; food safety; and other environmental health areas. Emphasis is placed upon individual and community responsibilities for promotion of environmental health. U/G Credits: 3

Health - Interdisciplinary Studies (HINT)
HINT 21200 **Exploring Diversity: Issues in Health Care, Education and Human Service**
An examination of disparities in health, education, and human services based upon factors such as social class, religious beliefs, ethnicity, disability, and race in the United States and Great Britain. Designed to expand students¿ abilities to be sensitive to and value cultural diversity to improve provision of health care, education, and human services. U/G Credits: 3

Occupational Therapy (OTBS)
OTBS 31200 **Health Care and Culture**
This course is designed to analyze social, political, economic, and cultural factors in the Dominican Republic and to investigate their influence on healthcare and the status of individuals with disabilities. The course will meet weekly during the semester, and culminate in a three-week trip to the Dominican Republic at the end of the academic semester. Topics discussed in weekly classes will provide students with a comprehensive understanding of Dominican society. While in the Dominican Republic, students will attend seminars related to history, colonization, racial relations, ethnicity, economic systems, healthcare, and politics. Students will also participate in excursions to historical sites and contemporary sites of interest, including the living and working environments of the Dominican people. U/G Credits: 2

Recreation and Leisure Studies (RLS)
RLS 13700 **Leisure Travel**
Develops an understanding of tourism and its social, economic, and environmental impact as one of the world's largest and fastest-growing industries. Examines travel motivation, travel trends including ecotourism, and the distinctive conditions that attract visitors to different regions of the world. Enables students to discover interesting places to visit and prepares them to deal with logistical concerns related to climate, monetary

exchanges, customs, time changes, health, and safety. The role of intermediaries to facilitate travel arrangements and provide information is also examined. U/G Credits: 3

RLS 21000 **The Wilderness Experience**
Exploration of the complexity of a wilderness experience. Focus on wilderness values and the relationship humanity have with shaping the natural environment as well as the affects wilderness has on human relationships will be introduced. This is a 15 day field experience. U/G Credits: 3

RLS 22000 **The Wilderness Experience**
Exploration of the complexity of a wilderness experience. Focuses on wilderness values and the relationship humanity has with shaping the natural environment as well as the effects wilderness has on human relationships. This is an extended field experience. U/G Credits: 4

RLS 22300 **Wilderness Literacy**
Survey of works in a variety of media that focuses on the theme of wilderness as a metaphor. Examination of the important ideas, people, cultures, and deep intellectual history of the wilderness movement. U/G Credits: 2

RLS 27700 **Ecotourism and Natural Resource Management**
Examines ecotourism from an international perspective. Emphasis is placed on management of the natural resources necessary in delivering a variety of ecotourist attractions (wildlife, plant life, scenery). Additionally, cultural resources associated with aboriginal cultures are explored. A majority of the course is spent traveling to various private and public ecotourism ventures (e.g., whale watching, hiking, sea kayaking). Students engage in the ecotourism ventures, as well as meet leisure service personnel who own, operate, and direct these ventures. U/G Credits: 3

RLS 37000 **Recreational Land Use Ethics**
Examination of the people and social forces that have influenced land use related to designated wilderness. Focus on philosophical and historical basis for wilderness management. Emphasizes development and promotion of a personal recreational land-use ethic. Includes an extended field experience. U/G Credits: 3

School of Humanities and Sciences

Anthropology (ANTH)

ANTH 10400 **Cultural Anthropology**
Explores the diversity of the world's societies, including "primitive" hunter-gatherer societies, herding pastoralists, peasant agriculturalists, and industrial peoples in rural and urban places. It emphasizes the role of culture in shaping human adaptations and human actions, and promotes understanding of other cultures. This course examines the way anthropologists do fieldwork, and looks at the contributions anthropology can make to an understanding of modernization, social change, urbanization, race relations, and cross-cultural communication. Reflecting the research experiences of individual professors, different sections of this course emphasize different cultures or regions of the world. U/G Credits: 3

ANTH 14500 **Service Learning in Native America**
Field-based introduction to the history, struggles, and contemporary efforts at revitalization of Native American communities, with a focus on contributing and giving back to local Native cultures. Reading combined with hands-on activities and field experiences in the homeland of Native Americans.3 credits. U/G Credits: 3

ANTH 15000 **Ithaca Seminar: Anthropology**
Many IC students travel to other countries at some point in their lives, whether through tourism or study abroad. Our seminar will examine some of the questions raised by international travel: How might we prepare for "culture shock"? How accepting are we of cultural difference? What is the social impact of tourism? Does it contribute to a "co-colonization" process, by which other cultures become Americanized? Is "eco-tourism" a viable economic development option for less developed countries? U/G Credits: 4

ANTH 15400 **Crossing Cultures: The Anthropology of International Travel**
Examines tourism and travel in their various forms and the issues raised, including tourism's social impact and role in globalization, and introduces an anthropological perspective on the process of crossing cultures. In addition, the course explores such anthropological concepts as culture, ethnocentrism, cultural relativism, value conflict, and culture shock, relying on both first-person and novelistic accounts by anthropologists and other travelers, as well as analyses by tourism professionals. In the process, students consider the qualitative difference between tourism and travel -- from the perspective of both hosts and guests -- with a goal of becoming more introspective tourists and travelers. U/G Credits: 3

ANTH 20400 **Comparative Societies**
This course works towards an understanding of the world's cultures by comparing societies around a series of central themes. These contrasts will include: idea/real, primitive/civilized, male/female, class/caste, simple/complex, hot/cold, war/peace, philosophy/religion, inner/outer self, and drugs/drinking. Pairs of societies drawn from Asia, the Pacific, Africa, Latin America, Europe, and Native and North America will be studied. Emphasis will also be placed on the way the anthropologists do research in these societies, and how the cultural insights gained could be applied to the design of Utopian societies. U/G Credits: 3

ANTH 24000 **Environmental Archaeology: Human Impact in the Past and Present**
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. U/G Credits: 3

ANTH 25100 **People, Plants, and Culture: Ethnobotany and Archaeobotany**
This course is an examination of the present and past interrelationships between people and plants. Students study plants as food, medicine, materials, and religion throughout the human experience, focusing on non-Western peoples. Topics include plant domestication and developmental trajectories, ethnopharmacology, Native American plant use, oral histories, and shaman-hallucinogen complexes. Also explored are the roles plants play in shaping culture and cultural change, defining social boundaries, and creating status. The final portion of the class considers important current topics and debates, such as bioprospecting, genetic modification, and intellectual property rights. U/G Credits: 4

ANTH 27700 **Native Americans and the Environment**
This course gives a range of perspectives on the relationships between Native Americans and the environment revolving around anthropological concepts, such as culture, ecology, and colonialism. Based on the centrality of land to Native culture and the connections between land and the sacred, students explore how land-people relations were reworked and misinterpreted following Western colonization. Topics include environmental racism, environmental justice, and the influence of government policies regarding Native access, use, and control of indigenous lands. Case studies from throughout North America, including upstate New York, exemplify conflicts over Native sacred sites and instances where Native people are revitalizing their cultures, comanaging lands such as national parks, and developing educational outreach programs. U/G Credits: 3

ANTH 28300 **Integrative Health Care in American Culture**
Utilizes a cultural framework to analyze the rapidly expanding and dynamic arena of alternative, complementary, and integrative health care in the United States. Through an anthropological lens, the course examines the history, scope, cross-cultural bases, and theoretical foundations of the many healing modalities that are employed in integrative approaches, including Chinese medicine, Ayurveda, Native American healing, herbalism, chiropractic, naturopathy, and homeopathy. Multiple paradigms of health and culture are examined, identifying areas of debate and convergence. Both quantitative and qualitative approaches to the study of health, culture, and society are examined, in addition to the politics of integrative health care as it relates to political economy, licensing, status, ethnicity, and gender. U/G Credits: 3

ANTH 28700 **Ethnomusicology Music Lab 1**
This course focuses on South Asian classical and folk music in its social, cultural, and political contexts. The course combines instruction in the skills of classical percussion (the art of tabla) and various Hindustani folk instruments with reading and writing assignments which encourage students to contextualize musical systems within larger South Asian cultures and histories. Although this course is open to students with no previous musical training or practical experience, all students engage in music performance in this class. U/G Credits: 3

ANTH 37500 **Environmental Anthropology**
Examination of the cultural dimensions of the sustainable use and management of natural resources in the context of global efforts to effect social change and economic development. Much of the focus is on less-developed countries' indigenous peoples, rural peasants, urban underclass, and their ethnoecologies. Critical attention is also paid to industrialized nations' impact on peoples and cultures of the third world and to their role as dominant forces in establishing global environmental policy. Included in the course are case studies of the United States' "culture of consumption," an examination of the relationship between development and the environment, and a discussion of public policy alternatives. U/G Credits: 3

ANTH 41100 **Primate Conservation**
This course explores the distribution, diversity, abundance, and rarity of lemurs, monkeys, and apes. It investigates how human behavior such as habitat disturbance and hunting impact primate populations. Issues to be discussed include various conservation strategies and tactics employed to protect our closest-living relatives, for example, taxon and area priorities, captive breeding, restocking and reintroduction, and ecotourism. U/G Credits: 3

ANTH 48000 **Medical Anthropology**
In this seminar healing traditions, beliefs, and practices from around the globe are explored through the lens of anthropological practice, methods, and theories. Healing modalities based in the scientific tradition, namely biomedicine, are examined and contrasted with other cross-cultural traditions, including those in Africa, Latin America, and Native America. Symbolic and religious perspectives on health, gender, and the body are also explored. Delivering health care in culturally pluralistic settings is covered, especially regarding how health care professionals can more effectively address multicultural health care. U/G Credits: 3

ANTH 48200 **Ethnoarchaeology**
Ethnoarchaeology is the study of living societies from an archaeological perspective. It is particularly concerned with patterned variability in material culture (architecture, artifacts, and material byproducts) and its relation to human behavior and organization. This "living archaeology" is an important component of a growing body of middle-range theory that archaeologists use to give voice to the mute archaeological record. At the same time, it provides a deeper appreciation of the technological, economic, and symbolic roles of material culture in today's societies. Class work may include both campus and community projects that examine and illustrate the theory, methods, and results of ethnoarchaeology. U/G Credits: 3

Art History (ARTH)

ARTH 23300 **Great Spaces: An Introduction to Urban Design**
Introduction to the history of open space design, with an emphasis placed on the city. Examination of the principles that generate successful spaces at several scales, from pocket parks and public squares to ceremonial sites and ideal cities. Analysis of the cultural meanings embedded in urban space. Regions covered include Western Europe and Russia, the Americas, and Asia. Chronological scope ranges from ancient to contemporary. U/G Credits: 3

ARTH 30200 **Architectural Studio II: Environmental Design and Digital Representation**
This course builds on skills introduced in ARTH 30100, moving from the scale of the individual architectural object to consideration of the building in its broader urban and natural environment. Basic techniques of drawing and 3-D modeling are further developed with exposure to more advanced representational challenges and digital tools. Tompkins County and its environs will serve as a locus for studio projects focused on the intelligent integration of built and natural form. Targeted exploration of such themes as ecologically sensitive siting, sustainable use of materials, and harmonization with natural forces for reduced energy consumption will occur through focused exercises and a culminating semester project. U/G Credits: 4

Biology (BIOL)

BIOL 10310 **New and Emerging Diseases**
Examines the phenomenon of new and emerging diseases and their effects on humans. Topics include the history of emerging or reemerging diseases, epidemics and pandemics, the role of ecological factors in disease emergence, types of infectious agents, their mechanisms of action, and how our immune system responds to infection by these agents. We examine factors -- such as antibiotic resistance, population, environmental changes, global travel, and global warming -- that contribute to diseases in the 21st century. We also discuss how political, economic, social, and cultural factors contribute to the emergence of diseases and the response to those diseases. U/G Credits: 3

BIOL 10400 **Environmental Biology**
Blends general ecological concepts with evaluations of several environmental problems. Topics include the growth and regulation of natural populations compared to human populations; our use and future supplies of energy, from food to nuclear power; and the preservation of wildlife. The pollution of our environment by human activities is emphasized. U/G Credits: 3

BIOL 10600 **Plants, People, and Food Production**
Major emphasis is placed on the structure and function of plants; the use of plants in food production; the structure of agricultural technology; the relationship between world food supply and the population problem; scientific, social, and economic aspects of food production. U/G Credits: 3

BIOL 10900 **Life in the Ocean**
Study of the diversity of life found in the ocean with special attention to how ocean life impacts and is impacted by humans. Threats to ocean diversity will be looked at from the standpoint of their effects on both individual organisms and various ocean ecosystems. U/G Credits: 3

BIOL 11300 **Insects and People**
Why insects are the most successful animals on earth, and their negative and positive effects on people. Topics include insect structure, function, reproduction, development, and behavior; insects as pollinators and producers of useful products; insects as scavengers and applications in forensic science; insects as vectors of disease; agricultural, forestry, and household pests; chemical and biological control of insect pests.
U/G Credits: 3

BIOL 11400 **Examining the World through Evolutionary Biology**
We will examine the mechanisms that have resulted in the rich diversity of life on our planet. We will also explore how evolutionary biology helps us to understand current issues in ecology, conservation biology, global climate change, agriculture, human health and medicine and human behavior. Topics in this course will include: the Fossil Record, Biodiversity, Mass Extinctions, Human Evolution, Infectious Diseases and Antibiotic Resistance. U/G Credits: 3

BIOL 11500 **Essentials of Biology**
A one-semester general biology course for nonmajors covering basic physiology, genetics, and development. Evolutionary trends and ecological relationships are discussed. The influence of biology on the lives of humans is emphasized. U/G Credits: 3

BIOL 11600 **Biology of Birds**
Focus on the role of birds in science and society, with an emphasis on appreciation for birds based on the knowledge of their biology. Topics include systematics, evolution, physiology, ecology, behavior and conservation. U/G Credits: 3

BIOL 12000 **Fundamentals of Biology**
A survey of biology for physical and occupational therapy, exercise science, and other health-related majors. Meets the biology requirement for environmental studies majors. Covers microevolution, macroevolution (patterns of evolution of the kingdoms, of phyla of plants and animals, and of classes of vertebrates), and ecology (general and human) at the level of populations, communities, and ecosystems. U/G Credits: 4

BIOL 20200 **Seabird Biology and Conservation in Maine**
Introduction to seabird biology and conservation in a fieldwork context. Course includes a one week orientation on the Ithaca College campus, followed by five weeks of project work in Maine, including two weeks of intense field research on Hog Island (camping accommodations) and four weeks of service learning and independent project work on the mainland. U/G Credits: 4

BIOL 21210 **Costa Rica: Ecology & Development**
This 12-day course will explore the wonders of Costa Rica, with a focus on the natural environment and efforts to protect and restore it. We will investigate natural history, tropical forest ecology, biodiversity and conservation biology, deforestation and reforestation, ecotourism, and sustainable development through field trips, site visits, and hands-on research and service. We will also integrate the Costa Ricas culture and language into the curriculum through community involvement, examining the cultural differences in belief systems related to nature, and Spanish language training for biologists. U/G Credits: 1

BIOL 22030 **Honors Intermediate Seminar: Alternative Futures**
World population is projected to increase from 6.2 billion to 10 billion people over the next 25 years. This course in environmental science explores possible alternatives to current global practices, in the context of the pressures of population growth. Major topics include water reserves, fossil fuels, and food production. U/G Credits: 3

BIOL 22500 **The Power of Plants: Plants in Medicine and Agriculture**
Explores the important roles of plants in modern society and indigenous cultures, with specific focus on plants as sources of medicines and food. Other topics include plant classification; the mechanisms of bioactive plant compounds in humans; the evolution, domestication, and genetic modification of crop plants; plant conservation; and ownership of nature. Lectures include discussions based on readings as well as lectures. U/G Credits: 4

BIOL 27100 **General Ecology**
Presents the basic concepts of ecology with balanced treatment of plant and animal examples. Topics include the interactions among individuals of a population, interactions in their abiotic environment, and interactions with other species. Also discussed are growth, regulation, diversity, and stability of populations, and the interactions among populations at the community and ecosystems levels. Laboratories include field and laboratory work and statistical analyses of data. U/G Credits: 4

BIOL 27500 **Field Biology**
Survey of the ecosystems of central New York. Areas of emphasis are direct experience of the diversity of ecosystems and their structure and function; adaptations of organisms to specific ecosystems; recognition of dominant and indicator species; human impact on ecosystem function and species diversity; and the methods used to measure these parameters. Lectures emphasize the unique attributes of different ecosystems and the techniques of data gathering and analysis. Analyses of societal impact and management of ecosystems are included. U/G Credits: 4

BIOL 27800 **Environmental Health and Medicine**
Discussion of a variety of environmental vectors of disease (air, food, drinking water, and liquid and solid wastes); routes of exposure (occupational, residential, and the unavoidable); physiological effects; and techniques to diagnose, treat, and regulate environmentally induced diseases. Additional topics include recent advances in epidemiology, biological monitoring, and risk assessment. U/G Credits: 3

BIOL 28400 **Field Ornithology**
Relation between climate, habitat, and regional bird species. Lecture and laboratory in bird anatomy, territoriality, migration, and song. Fieldwork: Saturday morning trips and bird banding. U/G Credits: 4

BIOL 30300 **Teaching Sustainability**
As David Orr has noted, *"the ecological crisis is in every way a crisis of education."* In this course, we will learn to teach K-12 students ecological literacy--the basic skills, knowledge, and habits of hearts and mind that we need to cultivate to transform our culture into one that meets its own needs without compromising the ability of future generations to meet theirs. We will survey sustainability education theory and curricula, with an emphasis on learning from working models, practical projects, and field experiences. As our culminating project, we will explore how we can prepare young people to be leaders in sustainability initiatives, and envision what education in a fully sustainable culture would look like. This project will contribute to the development of an alternative high school program at EcoVillage at Ithaca. You will leave this course with the solid theoretical grounding, wide variety of curricular resources, and practical experiences that will allow you to teach sustainability and create rich opportunities for collaboration between classroom teachers and environmental educators in community organizations. U/G Credits: 3

BIOL 32400 **Wonderful Life: Genes, Evolution, and Biodiversity**
An overview of evolutionary biology that includes the study of both microevolutionary and macroevolutionary change, as well as the mechanisms of such change, using examples from many types of organisms. Topics include the studies of Charles Darwin, the modern synthesis, natural selection, population and quantitative genetics, analysis of adaptation, and mechanisms of speciation. Lectures are supplemented with outside readings and videos. U/G Credits: 3

BIOL 36100 **Ecophysiology**
Ecophysiology deals with the function and performance of animals and plants in their environment. This course will integrate ideas from ecology and global change research down to physiology and molecular biology. From this we will gain an understanding of the physiological mechanisms by which organisms confront constraints in the environment. Specifically we will discuss adaptations to extremes in physical, chemical, and biotic

environment such as high and low temperature (deserts, artic), moisture (rainforests, wetlands, ocean), light (apline, caves, deep ocean) and nutrients (desert, lakes). We will explore the latest research through readings and analysis of the primary literature. U/G Credits: 3

BIOL 37100 **Natural Resource Ecology**
In this course, students will learn how to apply biological principles to manage and conserve of an array of biotic resources including wildlife, rangelands, forests, and agro-ecosystems. A firm grounding in ecosystem ecology including water and energy balance, nutrient cycling, and tropic dynamics will help us understand how do deal with issues facing the 21st century land manager such as climate change, persistent toxic compounds, invasive species, and habitat. Ithaca College's natural reserve system (IC Natural Lands) will serve as a focal point for hands-on experience with nature/human interactions, managing for multiple-use, maintaining biodiversity and ecosystem services, development of non-timber forest products, etc. Lecture: three hours. U/G Credits: 3

BIOL 37800 **Environmental Toxicology**
Environmental toxicology is the study of how chemicals in the environment adversely affect biological systems. This course explores how organisms respond to pollutants at the cellular, tissue, and organismal level. Lecture topics include the behavior in the environment, routes of exposure, modes of action, mechanisms of bioaccumulation, biotransformation, and biodegradation of common pollutants. The laboratory component focuses on experimental design, data analysis, and interpretation of field and laboratory studies. Laboratory topics include the detection of pollutants and their effects on tissues, biomonitoring, toxicity testing, and the use of this information in assessing risk of exposure to toxins. U/G Credits: 4

BIOL 46100 **Ecophysiology**
Examines the function and performance of animals and plants in their environment. This course integrates information from molecular biology through organismal physiology to understand the mechanisms that allow organisms to survive in their physical, chemical, and biological environments. This information is analyzed to understand how these small-scale processes affect higher levels of organization, from biotic communities up to global-level issues. Topics include adaptations to extremes in temperature, energy availability, moisture, and nutrients. Examples will be taken from organisms living in a wide variety of environments, including deserts, the Arctic, temperate forests, marine environments, and rain forests. U/G Credits: 4

BIOL 47900 **Aquatic Ecology**
Explores the biological, chemical, and physical features of lakes and streams, features that are related to general ecological concepts and environmental concerns. Focuses on the invertebrate and fish communities and the physiological adaptations of species to the aquatic environment. Theoretical approaches and practical techniques will be addressed. U/G Credits: 4

Chemistry (CHEM)
CHEM 10200 **Contemporary Chemical Issues**
A description and discussion of new compounds and materials made by the chemical industry during the past 100 years that have properties superior to those of naturally occuring products. Many of these advances have significantly improved modern living; however, byproducts of some of these advances have also decreased the overall quality of life. After an introduction to the language and symbols of chemistry, topics related to contemporary problems and examples follow some compounds from research curiosities to industrial products. U/G Credits: 3

CHEM 10500 **Energy and the Environment**
Description and discussion of types and sources of natural resources with a special emphasis placed on energy resources. Background is presented in terms of simple chemical principles understandable to students with

majors other than the sciences. Topics of societal concern include air pollution, acid rain, global warming, ozone depletion, and upcoming energy shortages. Viable solutions to these problems are discussed. U/G Credits: 3

CHEM 11700 **Environmental Chemistry**
General principles of chemistry needed for the study of environmental science. Topics include mathematical methods, electronic structure of atoms, stoichiometry, equilibria, acids and bases, thermodynamics, kinetics, and nuclear chemistry. U/G Credits: 3

CHEM 11900 **Environmental Chemistry Laboratory**
Hands-on experience with modern analytical instruments that are frequently encountered in environmental assessments. The course prepares students to be technologically knowledgeable and authoritative in their future careers. U/G Credits: 1

CHEM 20100 **Honors Intermediate Seminar: Chemicals and Citizens**
Many new compounds and materials made by the chemical industry have properties superior to those of natural substances. Many of these advanced have significantly improved modern living; however, by-products of some of these advances have also decreased the overall quality of life. After an introduction to the language and symbols of chemistry, topics related to contemporary problems and examples follow some compounds from research curiosities to industrial products. U/G Credits: 3

Communication Studies (CLTC)
CLTC 11000 **Media Literacy and Popular Culture**
This course serves as an introduction to the theory and practice of media literacy with an emphasis on developing skills in analysis and evaluation of media messages, as well as an understanding of critical thinking and the mediated communication process. Using an interdisciplinary approach that draws from many fields (including communications, psychology, and education), the course includes analyses of messages from both traditional (e.g., print, TV, film) and digital (e.g., websites) popular and educational media, and examines the effects of media messages on beliefs, attitudes, and behaviors. U/G Credits: 3

CLTC 20500 **Introduction to Creative Economies**
Course surveys how creative enterprises and the knowledge economies drive sustainable rural and urban revitalization, social modernization, public policy initiatives, and innovation. The course examines how the interdisciplinary nexus of the creative industries, including performing arts, recreation, sports, leisure, tourism, heritage sites, film, advertising, television, design, music, publishing, visual arts and crafts, and music, generate social, cultural, and economic capital. Topics covered include national and international creative economies case studies, the rise of the creative class, the development of creative cities, the establishment of cross-sectoral social interactions and partnerships, community building, and the relationship of globalization to the creative economies. U/G Credits: 3

Center for the Study of Culture, Race & Ethnicity (CSCR)
CSCR 12300 **Introduction to Culture, Race & Ethnicity Concepts**
Introduces students to key concepts in culture, race, and ethnicity studies. Drawing from cultural studies, comparative ethnic studies, and gender and sexuality studies, it investigates how racial and ethnic identity politics shape institutional and social policies, cultural expressions and aesthetics, and resistance movements. Particular attention will be paid to the ways communities of color have negotiated oppression, generated knowledge, and secured dignity and self-determination. U/G Credits: 3

Economics (ECON)

ECON 28100 **Environmental Economics**

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. U/G Credits: 3

ECON 29700 **Sustainable Development and NGOs**

Sustainable development appears to contain three main components: economic growth, social development, and conservation of nature. However, there is not a consensus on the scope or dimensions of the concept, or on how or where sustainable development is occurring. This course will explore sustainable development around the world and investigate some of the roles particular non-governmental organizations (NGOs) are playing in global sustainable development. U/G Credits: 1

ECON 36800 **Globalization and Human Development**

This course provides a working knowledge of contemporary issues related to globalization. The emphasis is on analysis of arguments concerning the linkages between trade and financial liberalization, economic growth, poverty alleviation, and well-being. U/G Credits: 3

Education (EDUC)

EDUC 26000 **Education for Social Change**

Examination of schools and teaching as potential forces for constructive social change. Study of innovative ideas and practices in education developed in pursuit of social reform. Topics include: democratic schools and classrooms, critical theory and pedagogy, anti-bias/anti-racist education, project-centered instruction, interdisciplinary curriculum, and community-based service learning. Students co-design the syllabus with the instructor and engage in project-centered learning and group work. Weekly volunteer work in schools and youth-service agencies required. U/G Credits: 3

EDUC 36000 **Education for Social Change**

Examination of schools and teaching as forces for constructive social change, investigating how educators can create learning experiences in schools, classrooms, youth programs, and communities that will contribute to the school success of all youth and the development of a more equitable and just society. Particular attention paid to democratic approaches to teaching and learning; multicultural education; critical reflection; experiential learning; youth activism; community-based education; and innovative uses of technology. The course reflects in its process many of the topics studied. Students participate in the design of the syllabus and engage in project-centered learning, including a combination of individual and group work. Class discussion and weekly volunteer projects. U/G Credits: 3

English (ENGL)

ENGL 11500 **Honors First Year Seminar: Nature's Way**

What relationship do we human beings have - or should we have - with the natural world, of which we are certainly a part yet from which our consciousness separates us? In the Book of Genesis, God tells the humans to subdue the earth and have dominion over every living thing, yet elsewhere in the Bible God harshly lectures Job that there is much in nature beyond human understanding and mastery. Though poet William Wordsworth calls feminine, nurturing nature the "soul of all [his] moral being," Alfred Tennyson merely fifty years later sees that nature is vicious and bloody, completely opposed to humanity's moral ideals. U/G Credits: 4

Environmental Studies and Sciences (ENVS)

ENVS 10100 **Environmental Seminar I**
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. U/G Credits: 0.5

ENVS 10300 **Environmental Film Festival Mini-Course - We Have Issues**
We will explore the underlying environmental issues in five films from a scientific, cultural, ethical, historical, and political perspective. All students will attend two preparatory classroom sessions before the festival begins. Prior to the screening of each film, a course instructor will provide students with background information on one of the specific issues that will be portrayed in the film. After viewing the film, a discussion will be held. During the discussions, emphasis will be placed on how the issue was portrayed in the film. For instance, did the film portray the issue(s) accurately? Was the film sensational or dismissive regarding the gravity of the issue? Students are encouraged to attend all selected films and associated events. U/G Credits: 1

ENVS 10400 **Gardening Principles and Practices: How to Grow Your Own Food**
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. U/G Credits: 1

ENVS 11000 **The Environmental Crisis: Causes and Solutions**
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. U/G Credits: 3

ENVS 11200 **Sustainability Principles and Practice**
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. U/G Credits: 3

ENVS 11400 **Environmental Issues in the Former USSR**
Course informs students on environmental issues specific to the former Russian Empire. Issues of industrial pollution, energy (especially natural gas and nuclear), land and resource use and food production will be examined within historical and political context of communism, political tyranny and subsequent independence, democracy, economic collapse and restructuring. Ukraine will be used as a case study, including how potential inclusion in the European Union affects environmental conditions and policy. U/G Credits: 3

ENVS 12000 **Environmental Sentinels**
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. U/G Credits: 4

ENVS 12100 **Environmental Science & Technology**
Focus on the scientific principles and technological advances fundamental to understanding human impact on the environment. Discussion of how human activities modify the environment and how technology contributes

to, as well as reduces, this impact. Topics include applications of biotechnology to biodiversity loss, chemical and biological waste remediation, water treatment and purification, and renewable energy sources and technologies. An interdisciplinary approach ties together the political, social, economic, and ethical aspects of environmental studies and science. Strong global perspective. U/G Credits: 4

ENVS 13000 **Earth System Science I**
This course takes a whole-systems approach to develop an integrated understanding of the physical, chemical, biological, and human interactions that determine the past, current, and future states of the earth. Treating the earth as a system of interacting spheres, but particularly focusing on the geosphere (environmental geology), this course provides a physical basis for understanding the world in which we live and on which humankind seeks to achieve sustainability. U/G Credits: 4

ENVS 13100 **Earth System Science II**
Continuing with the whole-systems approach introduced in ENVS 13000, this course will explore more applied aspects of earth system science, including soil science, geo- and hydromorphology. U/G Credits: 4

ENVS 20100 **Environmental Research: Introductory**
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. U/G Credits: 1-3

ENVS 20200 **Topics in Sustainability**
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. U/G Credits: 3-4

ENVS 20201 **Topics in Sustainability**
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. U/G Credits: 3-4

ENVS 20202 Topics in Sustainability
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. U/G Credits: 3-4

ENVS 20203 **Topics in Sustainability**
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. U/G Credits: 3-4

ENVS 20400 **Selected Topics in Environmental Studies**
This course includes and serves as preparation for a post-semester trip to a tropical rain forest to explore the local ecosystems and human impacts on biodiversity. During the semester, the class studies factors that lead to high biodiversity in the tropics, the importance of this biodiversity to human civilization including the use of timber and medicinal plants, and the current condition of coral reefs. They also learn to appreciate the scientific, artistic and spiritual accomplishments of the local culture. We will also explore the anthropogenic threats to these ecosystems, including overharvesting of natural resources, population growth, industrialized agriculture and tourism. Additional course fees apply for the trip. U/G Credits: 03-4

ENVS 21000 **Winter Sentinels**
Field-based course that focuses on natural history of eastern U.S. Students develop ability to perceive subtle seasonal changes in the environment. Ancestral technologies (friction fires, natural rope, medicinal plants, tracking, etc.) and winter field identification emphasized. U/G Credits: 3

ENVS 22000 **Human-Environment Geography**
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.
U/G Credits: 3

ENVS 22100 **Interdisciplinary Physical Science**
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. U/G Credits: 4

ENVS 23000 **Projects in Sustainability and the Environment**
This course provides an opportunity for students to pursue hands-on, field-based projects focused on sustainability on the IC campus and at EcoVillage of Ithaca in a collaborative and cohesive manner. Several projects will be offered simultaneously and students will work in small research teams on an individual project. All the research teams will meet weekly to share their learning, present results, and discuss the next phase of the projects. Potential projects focus on renewable energy (solar photovoltaics, and wind power), permaculture landscaping, green building design, community education for sustainability, and campus land stewardship.
U/G Credits: 3

ENVS 24000 **Environmental Archaeology: Human Impact in the Past and Present**
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. U/G Credits: 3

ENVS 26400 **Fostering Sustainable Communities**
This course focuses on understanding - and applying - core strategies that foster sustainable communities - education, knowledge of place, sustainable design, social marketing, partnership development, policy change, etc. It begins with an introduction to the fundamentals of sustainable community, on an ecological, social/cultural, economic, and personal level. It then focuses on strategies that are most effective in creating

behavior and policy change across broad sectors of the population. More the half the course will involve semester-long team projects (green building, sustainable land use, community education, etc.) on campus, in the local community or at EVI, that apply the principles and case studies that we cover. The class will become a "learning community" as an integral part of what we are studying. U/G Credits: 4

ENVS 26500 **Wilderness and Sustainable Development**
Provides practical skills for planning and managing wilderness areas, with emphasis on conservation of both natural and cultural values, as well as their use for nature-based tourism. Major themes are conservation management; changing concepts of national parks; conservation and human values; cultural values in natural areas; cultural heritage management; tourism management; tourism education; technical services; ecologically sustainable tourism development; and wilderness issues. A major component will be the treatment of nature-based tourism including its biophysical, social and cultural impacts. Includes a fieldwork component; takes an international perspective but special emphasis is placed on Tasmaniam protected areas and the Tasmanian Wilderness World Heritage Area. Offered as part of the Australiam Walkabout program. U/G Credits: 4

ENVS 27000 **Selected Topics: Environmental Studies**
Advanced courses offered at irregular intervals on various topics chosen by faculty members or resulting from student requests. Taught as a regular course with several students attending the same classes and laboratories. Topics might include environmental compliance, campus ecology, ecotourism, and sustainability. May be repeated for credit for selected topics on different subjects. U/G Credits: 1-3

ENVS 30100 **Environmental Research: Intermediate**
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. U/G Credits: 1-3

ENVS 30101 **Environmental Research**
For students who desire hands-on research in issues relating to sustainability and the environment. Research can involve participation in continuing projects or in new, student proposed projects. Students will work closely with a faculty member to guide their study. U/G Credits: 1-12

ENVS 30300 **Teaching Sustainability**
As David Orr has noted, "the ecological crisis is in every way a crisis of education." In this course, we will learn to teach K-12 students ecological literacy--the basic skills, knowledge, and habits of hearts and mind that we need to cultivate to transform our culture into one that meets its own needs without compromising the ability of future generations to meet theirs. We will survey sustainability education theory and curricula, with an emphasis on learning from working models, practical projects, and field experiences. As our culminating project, we will explore how we can prepare young people to be leaders in sustainability initiatives, and envision what education in a fully sustainable culture would look like. This project will contribute to the development of an alternative high school program at EcoVillage at Ithaca. You will leave this course with the solid theoretical grounding, wide variety of curricular resources, and practical experiences that will allow you to teach sustainability and create rich opportunities for collaboration between classroom teachers and environmental educators in community organizations. U/G Credits: 3

ENVS 30400 **Selected Topics in Environmental Studies: Invasive Species**
Worldwide, the restructuring of ecosystems by invasive species is one of the top three causes of biodiversity loss. This course explores the biological causes and consequences of invasive species. We will also consider the role of humans in spreading invasive species and the efforts in managing them. The course will focus on case studies, including invasive species threatening Ithaca's own natural lands, to examine what is known, what is not known, and what we can do about these problem species. U/G Credits: 4

ENVS 31000 **Energy Effectiveness and Sustainable Systems**
Introduces key concepts and skills relevant to generating methodologies for more effective energy usage. The primary emphasis of the course is on residential energy usage, but a variety of energy systems will be examined, both in theoretical terms and in the field. The course will offer rigorous grounding in the technical aspects of comparing energy usage patterns in different contexts, and it will consider means by which consumption of energy can be reduced by altering social habits and by implementing technical solutions. Specific energy problems and opportunities will be considered in light of larger issues involved with energy consumption and waste in a largely fossil fuel based economy. The course will be projects based, with students undertaking energy audits, billing analysis, and behavioral surveys. Some projects may include retrofitting of existing structures. U/G Credits: 3

ENVS 32000 **Ecologically Sustainable Community**
Ecologically Sustainable communities introduces key concepts and skills relevant to creating sustainable communities, through an integration of academic study of sustainable use and management of natural resources and hands-on involvement in the life of EcoVillage at Ithaca. Its major goal is to facilitate an understanding of how we, as members of a learning community, can shift from some of the deeply ingrained life-depleting patterns of our dominant culture to more life-sustaining patterns. While the course's academic focus will be on a cross cultural study of how human communities manage and impact their eco-systems, the experiential portion of the course will involve field testing and applying systainable management concepts. It is in this portion of the course, whether in surveying energy systems and ecological design practices, monitoring composting, or even helping with Community Supported Agriculture, that we will create a partnership relationship with EcoVillage, give back to the residents, and, in the process, become more of a learning community ourselves. U/G Credits: 4

ENVS 32200 **Environmental Methods: Sampling, Surveying, Statistics and Analysis**
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. U/G Credits: 4

ENVS 33000 **Sustainable Land Use**
This 5-week, 3-credit summer course will introduce students to kep concepts, skills, technologies, and processes involved in working with land, on a neighborhood and small community scale, in ways that foster the long-term well being of its human and natural communities. It will ground students in both scientific and community based models of sustainable land/water use by integrating presentations, discussions, and readings with hands-on experience of the land and the land use history, practices, and planning at Eco Village Ithaca, a model sustainable community on 176 acres of land just outside of Ithaca, New York. U/G Credits: 3

ENVS 33100 **Topics in Geography and Planning**
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 8 credits. U/G Credits: 3-4

ENVS 33101 **Topics in Geography and Planning**
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 8 credits. U/G Credits: 3-4

ENVS 33102 **Topics in Geography and Planning**
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 8 credits. U/G Credits: 3-4

ENVS 33300 **International Environmental Policy**
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. U/G Credits: 3

ENVS 33500 **Sustainable Land Use**
This 5-week, 3-credit summer course will introduce students to kep concepts, skills, technologies, and processes involved in working with land, on a neighborhood and small community scale, in ways that foster the long-term well being of its human and natural communities. It will ground students in both scientific and community based models of sustainable land/water use by integrating presentations, discussions, and readings with hands-on experience of the land and the land use history, practices, and planning at Eco Village Ithaca, a model sustainable community on 176 acres of land just outside of Ithaca, New York. U/G Credits: 4

ENVS 34000 **Topics in Pollution**
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 8 credits. U/G Credits: 3-4

ENVS 34001 **Topics in Pollution**
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 8 credits. U/G Credits: 3-4

ENVS 34002 **Topics in Pollution**
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 8 credits. U/G Credits: 3-4

ENVS 35000 **Topics in Natural Resources and Ecology**
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 8 credits. U/G Credits: 3-4

ENVS 35001 **Topics in Natural Resources and Ecology**
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 8 credits. U/G Credits: 3-4

ENVS 35002 **Topics in Natural Resources and Ecology**
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 8 credits. U/G Credits: 3-4

ENVS 36000 **Topics in Environmental Humanities**
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. U/G Credits: 3

ENVS 36001 **Topics in Environmental Humanities**
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. U/G Credits: 3

ENVS 36002 **Topics in Environmental Humanities**
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. U/G Credits: 3

ENVS 37000 **Topics in Earth Science**
Intermediate course with a different focus each semester. Topics include hydrology, biogeochemistry, soil science, and agriculture. May be repeated for maximum of 8 credits. U/G Credits: 3-4

ENVS 37001 **Topics in Earth Science**
Intermediate course with a different focus each semester. Topics include hydrology, biogeochemistry, soil science, and agriculture. May be repeated for maximum of 8 credits. U/G Credits: 3-4

ENVS 37002 **Topics in Earth Science**
Intermediate course with a different focus each semester. Topics include hydrology, biogeochemistry, soil science, and agriculture. May be repeated for maximum of 8 credits. U/G Credits: 3-4

ENVS 37100 **Natural Resources Ecology**
In this course, students will learn how to apply biological principles to manage and conserve of an array of biotic resources including wildlife, rangelands, forests, and agro-ecosystems. A firm grounding in ecosystem ecology including water and energy balance, nutrient cycling, and tropic dynamics will help us understand how do deal with issues facing the 21st century land manager such as climate change, persistent toxic compounds, invasive species, and habitat. Ithaca College's natural reserve system (IC Natural Lands) will serve as a focal point for hands-on experience with nature/human interactions, managing for multiple-use, maintaining biodiversity and ecosystem services, development of non-timber forest products, etc. U/G Credits: 3

ENVS 38000 **Selected Topics in Field Studies**
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. U/G Credits: 1-4

ENVS 38001 **Selected Topics in Field Studies**
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. U/G Credits: 1-4

ENVS 38002 **Selected Topics in Field Studies**
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. U/G Credits: 1-4

ENVS 38003 **Selected Topics in Field Studies**
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. U/G Credits: 1-4

ENVS 39000 **Environmental Studies Course Assistant Practicum**
A training course for students who have been selected as course assistants for ENVS field-based courses. Course may be repeated once, for a total of 2 credits. U/G Credits: 1

ENVS 39900 **Selected Topics: Experiences in the Field**
Advanced intersession course offered at irregular intervals on various topics chosen by faculty members. Courses travel to national and international destinations to examine the ecology of an area and the effect of economic development on the natural resources. Past destinations include Costa Rica and Mexico. May be repeated for credit for selected topics at different locationsU/G Credits: 1-3

ENVS 40100 **Environmental Seminar II**
Seminars, discussion, and readings in environmental studies and science. Required of environmental studies and environmental science majors. U/G Credits: 0.5

ENVS 40200 **Environmental Research: Advanced**
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. U/G Credits: 1-4

ENVS 45000 **Senior Research**
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 under the direction of individual faculty members. All research teams will engage in a rigorous research agenda, drawing on methodologies from natural sciences, social sciences, and humanities. U/G Credits: 3

ENVS 45100 **Capstone Discussion Group**
Discussion group for seniors in environmental studies and environmental science. Course focuses on summative reflection on educational and personal growth. Career preparation is also highlighted in the form of resume and cover letter assistance, networking, interviewing, and job searching. U/G Credits: 1

ENVS 49000 **Independent Study: Environmental Studies**
A reading program of materials of special interest to the student, undertaken under faculty direction.
U/G Credits: 1-4

ENVS 49500 **Internship: Environmental Studies**
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. U/G Credits: 1-12

History (HIST)
HIST 27000 **History of American Environmental Thought**
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, and attitudes. Topics include capitalist, Romantic, and ecological thinking; the goals of conservation and preservation; recent rethinking of primitive experience; 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. U/G Credits: 3

HIST 27200 **History of the Future**
An examination of historical perceptions and visions of the future. Utopian thought and societies, science and technology, war and peace, the environment, and gender relations are the historical themes assessed.
U/G Credits: 3

HIST 38700 **History of Disease and Health in Latin America**
Examination of the history of disease and health in Latin America from the pre-Columbian period until the present day. The course considers the various ways that diseases, and ideas about disease, have been shaped by race, gender, class, nationalist ideologies, agricultural and trade practices, and politics. U/G Credits: 3

Interdisciplinary Studies (IISP)
IISP 35000 **Climate Action Research Teams**
This course integrates educational and planning activities with campus operations in order to solve problems in greenhouse gas emissions reductions. The course will focus on three key campus areas: facilities, resource & environmental management, and transportation. In the first semester the Climate Action Research Team will focus on electricity conservation and social marketing; subsequent semesters will study new ways that the campus can generate heat and electricity for its buildings, and new ways that faculty, staff, and students can reduce their transportation-related greenhouse gas emissions. This course is motivated by the educational opportunities embedded in the Ithaca College Climate Action Plan, signed by the Board of Trustees in the fall of 2009. Our plan commits us to demonstrating the institutional changes required to become climate neutral, and to working with students on every step of the process. U/G Credits: 3

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2009. Our plan commits us to demonstrating the institutional changes required to become climate neutral, and to working with students on every step of the process. U/G Credits: 4

IISP 10100 **Finger Lakes Environmental Film Festival Minicourse**
Interdisciplinary seminar on a variety of topics connected to the Finger Lakes Environmental Film Festival. May be repeated three times for a total of three credits if topics differ. U/G Credits: 1

Philosophy (PHIL)
PHIL 25000 **Environmental Ethics**
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? U/G Credits: 3

PHIL 32500 **Philosophy of Public Policy**
Critical analysis of the alternative ways that criteria of "efficiency, adequacy, and equity" are interpreted and applied to evaluation of some basic questions in public policy. These differences are linked to different economic models (neoclassical, institutional, and socialist). Applications include at least some of the following issues: comparable worth, for-profit health care, plant-closing legislation, cost-benefit analysis of risk, growth of part-time and "leased" non-unionized employees. U/G Credits: 3

PHIL 34000 **Global Ethics**
The course surveys significant ethical challenges that are global in scope: Are there such things as universal human rights, or is morality ultimately relative to one's particular culture? What, if any, duties do we have to the global environment? What is the difference between a just and unjust war, and between just and unjust ways of combating terrorism? Morally speaking, what can be said in defense of economic globalization, and against it? Are global inequalities in wealth morally defensible? U/G Credits: 3

Physics ((PHYS)
PHYS 14100 **First Year Seminar: Power Energy Options for a Global Society**
Our modern industrial society requires an abundant supply of energy. In the past few years, increases in fuel prices and the impacts of electric energy deregulation have raised our awareness of energy issues. As concern over long-term supplies of fossil fuels and the environmental impacts of their use continue to grow energe issues will occupy an increasingly important place in economic, political, and environmental debates. This course will introduce students to energy principles, the rudimentary physics of thermodynamics and kinematics, energy resources, and the economic and environmental opportunities created by energy efficiency and sustainable energy systems. The course will provide students with a grounding in the technical principles necessary to design energy projects of their own and to evaluate their costs and benefits. U/G Credits: 4

PHYS 14300 **Power: Energy Options for a Global Society**
Survey of energy. Topics include energy technologies and energy resources (fossil fuels, nuclear, solar, wind, geothermal, biomass). Students are introduced to electricity, heat production and transfer, heat engines, energy efficiency, and sustainable energy systems. Energy use sectors such as residential, commercial, and transportation are examined. The course begins with a look at energy use in the home and gradually expands to complex subjects such as the electrical grid, national energy policy, deregulation, and international fusion research. The emphasis is on energy literacy and the goal is to provide students with the basic technical principles necessary to design energy projects of their own and to evaluate their costs and benefits.
U/G Credits: 3

PHYS 16801 **Archaeological Geophysics: Non-invasive Investigations of Archaeology Sites**
This course explores how technology can help us understand past human behavior in a non-destructive way. It is designed for students that have chosen to major in areas other than science and will serve as an introduction to the basic concepts of physics, geophysics, and archaeology. The case studies chosen are based in England. Offered only through the London Center. U/G Credits: 3

PHYS 17100 **Earth: Evolution of a Habitable World**
Formation and evolution of planet Earth from the astronomer's perspective: creation of elements, the first rocks, development of oceans, the first atmosphere, formation of the moon, records of climate history, and how life on Earth fits into the context of life in the universe. Examination of Venus and Mars as possible analogs for Earth's evolution (past and future). Other topics include the influence of the sun on Earth's climate, the greenhouse effect, the geologic record of the development of continents, and the asteroid and comet impact hazard. Emphasis is placed on our sources of knowledge, the errors of our measurements, and the attendant model uncertainties in predicting Earth's future. U/G Credits: 3

PHYS 17200 **Earth: Evolution of a Habitable World with Lab**
Formation and evolution of planet Earth from the astronomer's perspective: creation of elements, the first rocks, development of oceans, the first atmosphere, formation of the moon, records of climate history, and how life on Earth fits into the context of life in the universe. Examination of Venus and Mars as possible analogs for Earth's evolution (past and future). Other topics include the influence of the sun on Earth's climate, the greenhouse effect, the geologic record of the development of continents, and the asteroid and comet impact hazard. Emphasis is placed on our sources of knowledge, the errors of our measurements, and the attendant model uncertainties in predicting Earth's future. U/G Credits: 4

Politics (POLT)
POLT 10400 **Environmental Politics through Film**
This course examines an array of environmental issues via exposure to multiple media platforms. Topics to be considered include climate change, urban planning, globalization, public health, genetic engineering and human reproduction, human rights, energy policy, ethnic conflict, and political economy. In addition to film and video, students will be exposed to environmental discourses within new media environments: online digital art, web 2.0, the blogosphere, and popular web portals, such asYouTube. U/G Credits: 3

POLT 11500 **First Year Seminar: Sustainable Politics**
Addresses issues related to environmental sustainability and considers how sustainability is fostered or undermined by local activities within global systems. The core assumption of the courses is that our current environmental trajectory is not indefinitely sustainable. The question of what "sustainability" is and how it can be accomplished will be examined from a variety of perspectives. Students will be encouraged to think critically about the consumer economy in which we all participate, especailly in terms of their own patterns of consumption. Alternative means of organizing systems of production (energy, food, transportation) will be investigated, as will the social, economic, and political consequences of shifting towards them. Guest speakers and field trips will be a central aspect of the course, along with critical analysis of readings. U/G Credits: 4

POLT 12900 **Introduction to Global Studies**
The connections between the industrialized nations of Europe, North America, and the Pacific (the "North") and the "third-world" nations of Africa, Asia, and Latin America (the "South"). From interdisciplinary and cross-cultural perspectives, the course examines a number of global issues -- that is, issues transcending national boundaries, such as food and famine; population; foreign aid, debt, and development; natural resources, energy, and the environment; and national security and militarism. National and international public policies

relating to these issues are examined critically and policy alternatives are explored, as are individual responses and responsibilities. The course emphasizes geographic literacy and global awareness. U/G Credits: 3

POLT 36400 **Law and Public Policy**
Gives a sense of the important place of public law in the policy-making process and examines how legal education shapes legal thinking. Considers the role of courts in forming policies related to housing, school desegregation, mental health care, prison reform, AIDS, and the environment. Contract theory is analyzed as it relates to issues like surrogate motherhood. Covers selected criminal law issues, such as those related to rape. Students evaluate the strengths and limitations of using legal approaches to the formulation of policy options. U/G Credits: 3

POLT 36600 **Environmental Politics**
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. U/G Credits: 3

Psychology (PSYC)
PSYC 11200 **First Year Seminar: Critical Thinking about Media Effects and Media Literacy**
This course will use the contexy of psychology and the principles of media literacy to explore the influence of media on beliefs, attitudes and behaviors (including the effects of television, film, magazines, popular music, video games, and digital media). We will examine the most recent evidence regarding the efects of media on children and adolescents. In exploring the topic of media effects, students will begin to become familiar with some basic psychological models and theories, including social learning, arousal, desensitization, and stereotyping. U/G Credits: 4

Sociology (SOCI)
SOCI 11600 **Introduction to Multicultural Studies**
Designed to increase students' awareness of cultural diversity and to acquaint them with multiculturalism as a contemporary social phenomenon. The course describes characteristics of our culture and society that have led to intolerance and ethnic prejudices, characteristics that impede people's understanding and appreciation of diversity. Students are introduced to basic concepts, competing theories, and current controversies related to multiculturalism in our society as well as in others. U/G Credits: 3

SOCI 24700 **Environmental Sociology**
In this course students examine how ideas about the environment are socially constructed and explore how different values and beliefs contribute to conflicts about conservation, preservation, and the well-being of humans and non-human beings. The course emphasizes the environment as a social issue and as a social problem. U/G Credits: 3

SOCI 40200 **Society and Nature**
Explores the assertion that the central activity of the individual and collectivities of individuals must be ecological. Students are asked to investigate their capacity to be ecologically "knowing." What does it mean to define our relationships to the places in which we live? Where is this place? What is a relationship? What does it mean to "know" or to "experience" ecologically? U/G Credits: 3

Womens Studies

WMST 21000 **Green Grrrls and Earth Mothers: Women and Sustainability**

Green Grrrls and Earth Mothers explores the many connections between women and the environment, from the symbolic association of women and nature, to the ways that global warming is already impacting the lives of women in developing countries. Throughout the course, we will examine the lives of women who work to bring about a world that is ecologically sustainable and socially just. U/G Credits: 3

Writing

WRTG 31900 **Writing as a Naturalist**

Advanced expository essay course focusing on human interactions with the rest of the natural world. Readings are selected from the writing of naturalists, environmentalists, scientists, legislators, artists, poets, and philosophers. Writing assignments include field observation, description, analysis, and argument. U/G Credits: 3

Total number of courses: 179

Number of academic disciplines represented: 35

Sustainability-focused courses concentrate on the concept of sustainability, including its social, economic, and environmental dimensions, or examine an issue or topic using sustainability as a lens.

Sustainability-related courses incorporate sustainability as a distinct course component or module or concentrate on a single sustainability principle or issue.

Number of Sustainability-focused courses: 99

Number of Sustainability-related courses: 80