

# Ithaca College Sustainability Content Courses – 2013-14

(courses listed in 2013-2014 Undergraduate and Graduate Catalogs and Homer Connect)

## All-College Educational Opportunities

### First Year Seminars

#### CRN 23511 Decisions, Decisions, Decisions: The Art and Science of Decision Making **NEW**

Decision making is key in every part of a person's life. It becomes especially important as a young person transitions to college and becomes more independent. From food choices in the dining hall, to course selections and ultimately a career path, a student is confronted with innumerable daily decisions. This course will provide students with research based strategies as well as common sense practical approaches to mindful, responsible decision making. Using real life situations and scenarios this course will explore the art and science of decision making through a variety of lens, including self-awareness of biases, tolerance of others' opinions and the impact of personal values on choices. Students will build confidence and accountability as they better understand how different perspectives affect the process of decision making. U/G Credits: 3

#### CRN 23571 Chemistry as Humanity: How Chemistry Shapes Human Experience **NEW**

The course 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 chemistry, as well as society applications of chemistry. The course will use a theme-based approach to the subject, considering topics such as art, sustainability, medicine, warfare, food and others. There will be an emphasis on active problem-solving and the tools and methods that scientists use to study chemistry will be discussed in a variety of contexts and applications. Students will be encouraged to make connections between chemistry and their everyday lives and specific areas of interest, and will develop skills to make educated decisions based on the availability of reliable data. U/G Credits: 3

#### CRN 23648 Healthy Psyches, Healthy Planet **NEW**

Ecopychologists believe that humans are part of a vast interconnected system that is the natural world. Whether we feel this connection or not is of vital importance to our emotional, cognitive and even physical well-being. Moreover, western contemporary societal structures and economic philosophies often serve to disconnect us from the natural world and therefore play a role in our mental and physical "dis-ease". The ecosystem in turn, suffers from our disconnection. Taking a primarily psychological perspective, we will explore these ideas, and critically evaluate the research literature that supports these views as well as the limitations of that research. We will look to other perspectives, finding out what poets, philosophers, ecologists and artists have to say on the subject. We'll mine for our own insights through active learning, nature jaunts, mindful meditations, artistic immersions, lively discussions and reflective journaling (via blogs). Learning about ourselves and reflecting on our societal structures, we will apply these insights to propose solutions for helping the planet and people live in better harmony and health. U/G Credits: 3

#### CRN 23670 Death of Nature: Mourning Environmental Losses **NEW**

Our capacity to address present and pending environmental challenges may depend on how adequately we have mourned the ecological losses we have already sustained. Religious traditions around the globe have constructed and conveyed historically-conditioned cultural wisdom and culturally-specific practices for mourning and memorializing human deaths. We will explore five of these traditions – West African (Dagara) funerals, Tibetan Buddhist sky burials, Jewish kaddish, Shi'ite Ashura, and Franciscan Transitus – and draw analogies from these examples to the challenge of mourning and remembering "natural" deaths, such as the death of pets, loss of the family farm, extinction of species, and the "death of nature" due to anthropogenic climate change. U/G Credits: 3

**CRN 23504 The Power of Water: Sustaining our Future *NEW***

Understand water sustainability issues through an interdisciplinary approach to topics from the personal to global level. Emphasis is on the complex interrelationships of water for individuals, cultures, countries and the global environment. U/G Credits: 3

**CRN 23643 Global Warming - It's a Hot Topic *NEW***

We will explore global warming and the resulting climate change through the lens of power and justice. We will look at the power and limitations of science to explain current climate change and to predict what we will see in the future. And we will look at climate justice. Students will take on the roles of scientists and policy makers in various countries to understand the global differences in the impact of climate change and their power to prevent or adapt to it. U/G Credits: 3

**CRN 23598 Environmental Politics through Film *NEW***

This course draws upon my experience as codirector of the Finger Lakes Environmental Film Festival. As with the festival, the course questions a narrow definition of “environment” and considers the connections between power differentials, human rights, economic inequality, and the environmental crisis. Thus, we begin the course with a reading of Shellenberger and Nordhaus’s controversial paper declaring the “death” of environmentalism, and some critical reactions to it. The course then extends into a wide variety of topics that consider explicit and implicit connections between the humans and the social and natural systems that we inhabit. These include “wilderness” protection, food production and consumption, labor issues, global economic growth, climate change, drug policy, human rights, and public health. Each week includes a film screening, followed by lecture and discussion organized around supplementary readings designed to illuminate the issues raised in the films. In a number of cases, we will use Skype to connect with film directors, who will be available to answer student questions. U/G Credits: 3

**CRN 23521 Power and Energy Technologies *NEW***

Survey of power and energy. Topics include energy resources, electricity, the rudiments of heat production and transfer, fossil fuels, nuclear, solar, wind, geothermal, and the economic and environmental opportunities created by energy efficiency and sustainable energy systems. As concern over long-term supplies of fossil fuels and the environmental impacts of their use continue to grow, energy issues will occupy an increasingly important place in economic, political, and environmental debates. This course looks at energy use in the home (lightbulbs, appliances), and gradually expands to more complex subjects such as the electrical grid, national energy policy, and life cycle assessment. 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. Some math at the high-school algebra level is required. The course is team taught to incorporate valuable local expertise on these topics. U/G Credits: 3

**CRN 23551 Living with the Land: A Personal Approach to a Sustainable Life *NEW***

In this seminar we will learn how humans have come to dominate the earth's ecosystems and the resultant risks to the biosphere. From this starting point we will explore sustainable and environmentally friendly solutions involving individual actions and lifestyle choices. From the Nearings' Forest Farm to Harlan Hubbard's Payne Hollow we will look at different approaches to living with the land instead of just on it. Efforts will be made to investigate local approaches to living with the land such as Ecovillage at Ithaca, the CSA movement, green building, and local everything. Students in this course will explore living with the land through readings, in-class discussions, simulations, research projects, field trips, videos and examinations. The course culminates with students designing their own 20 acre homestead. U/G Credits: 3

### CRN 23606 We Are What We've Eaten **NEW**

This interdisciplinary, team-taught course examines the centrality of food in human life across time and space. Students will explore human relationships to key foods from prehistoric, historic, and contemporary perspectives U/G Credits: 3

### CRN 23628 The Indie and the Improvised: Emerging Media and a Sustainable Future **NEW**

This seminar will combine the core elements system thinking and roots movements with decentralized trends in emerging and independent media to frame a forward facing focus on durable sustainability. U/G Credits: 3

### CRN 23631 Island Life: Biological Consequences of Human Arrival **NEW**

This course is an analysis of human impacts on island floras and faunas. By considering a variety of case studies, students will analyze the impacts of human introductions to islands (e.g. diseases, non-native species) as a consequence of exploration, migration, and imperialism. U/G Credits: 3

## **Honors Ithaca Seminar (ICSM)**

### ICSM 11800-02 Facing Nature

In this seminar we consider our human relationship with the natural world. Discussion focuses on the complex, often contradictory, ways Americans have addressed questions about nature from the days of exploration and colonization to the present. Students read works by American writers who have struggled to articulate the meaning of nature and its relation to the human experience. U/G Credits: 3

### ICSM 11832 Facing Nature, Facing Ourselves **NEW**

Since America's early colonization and settlement by Europeans, our nation has had an ambivalent response to the rich natural world that is our home. One response has been a sense of awe in the face of such abundance, beauty, power, and mystery; another has been a relentless drive to use—some might say exploit—nature to serve human needs. The serious environmental dilemma we now face is one legacy of this conflicted response. If we are to understand the roots of this complex relationship and to explore ways that we might begin to repair the damage suffered by the earth and our human communities, we must ask tough questions: Why has our relationship with nature been so conflicted? What does nature mean to us? What human needs does it satisfy? Does nature have needs of its own, intrinsic value, and even rights? Should we and can we balance the needs of humans and the needs of nature? If so, what changes must we make in our assumptions, values, and choices? This course will offer us a chance to seek answers to these questions by studying a range of interdisciplinary texts—literary, historical, philosophical, and political—that will often reflect conflicting perspectives. I hope that analyzing the differences in the values underlying these perspectives will help us to clarify our own attitudes and beliefs . U/G Credits: 3

**IICC Courses** - *Courses in the Integration, Insight, Creativity, Character or IICC framework complement and enhance disciplinary study and directly address important skills: active synthesis, appreciation of multiple perspectives, and contribution to an evolving society.*

### ICIC 10000 Integration - Connecting the Disciplines

How will we meet the complex challenges of the 21st century? We will need to find ways to combine insights and ideas from many fields of study and to use them creatively. Concepts and tools from systems science and design can help us do this. They are introduced through a series of engaging learning activities. U/G Credit: 1

### IICC 14000 Character – Developing Habits for Good

How can we best serve society? By each and every day making choices that do good for others as well as ourselves. The content and development of character are explored through a series of challenging activities and assignments. Tools for examining and intentionally altering patterns of thought and action to better serve society are introduced. U/G Credit: 1

## 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. U/G Credits: 3

### *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 Credits: 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 Credits: 3

### *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 Credits: 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 Credits: 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 Credits: 3

## **Management (MGMT)**

### **MGMT 39100 Managing for Sustainability** *NEW*

Examines the challenge of maintaining sustainable business strategies while meeting the needs of various stakeholders. Will investigate various models of business sustainability and how to integrate sustainability concerns into managerial functions. U/G Credits: 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 Credits: 3

## **School of Communications**

### **General Communications (GCOM)**

#### **GCOM 20000-01 Media for Social Responsibility**

In this course, students will learn to 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. U/G Credit: 1

#### **GCOM 20100 Water Planet: Perspectives on Water Sustainability** *NEW*

Understand perspectives on water sustainability issues through an interdisciplinary approach with guest experts in the arts, sciences and humanities. Explore water sustainability topics from the personal to the global through readings, activities, discussion and media analysis. U/G Credits: 3

### **Journalism**

#### **JOUR 24100-01 News of the Century (Honors)** *NEW*

We explore the historical context, the economic present and the technological future of news media. Students critique how journalists cover such issues as the environment, health care and entertainment. Other topics include diversity, sustainability, new media and international journalism. This course uses a series of readings, DVDs and group discussions to explore 21st century media and news. Primary sources will include interviews with professional journalists and other agenda setters in media. U/G Credits: 3

## **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 31100 Government and Stakeholder Relations *NEW***

Explores how organizations are held accountable for their actions and decisions by various constituencies. Through case study analyses, students will investigate dialectical tensions, challenges, and issues that surface in strategically managing different stakeholders -- investors, government agencies, and communities. Students will learn about their own and organizations' expectations for ethical and social corporate responsibility, both in domestic and international contexts. U/G Credits: 3

## **Television and Radio (TVR)**

### **TVR 20100 Water Planet: Perspectives on Water Sustainability**

If you like water in any way, shape or form, enter the world of this essential element as we explore questions such as: What is your water footprint? Why is water considered 'Blue Gold'? Why is water important in many religious rituals? We will use perspectives from the arts, humanities and sciences, with a focus on the global politics of water and sustainability and its media representations. Internet readings, videos, podcasts, guest lecturers and discussions link students with national and international experts. U/G Credits: 3

### **TVR 29302 - Media and the Environment: Water Issues**

Enter the world of water through viewing documentaries, animations and PSA's about water issues. You will develop concepts and approaches for creating media that can help expand water awareness among diverse people, including here at Ithaca College. U/G Credit: 1

## **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 – Interdisciplinary (HINT)**

#### **HINT 31200 Health Care and Culture**

An investigation of sociocultural context in the delivery and receipt of health care and rehabilitation services. Students examine, through readings, discussion, and interviews with people in the community, the role of ethnicity, race, religion, and socioeconomic status in shaping the health-related beliefs and behaviors of individuals. U/G Credits: 3

### **HINT 31300 Health Care and Culture: An International Field Experience** *NEW*

An investigation of sociocultural factors in the delivery of health care and rehabilitation services in an international context. Students examine, through experiential learning, discussion, and lectures, the role of ethnicity, race, religion, and socioeconomic status in shaping the health-related beliefs and behaviors of individuals in a selected country. U/G Credit: 1

## **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

## **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 10600 Introduction to Occupational Science *NEW***

An overview of the science of human occupation and theoretical models that are used to describe the impact of occupation on individuals. Includes the personal, physical, psychosocial, cultural, and environmental factors of work, self-care, and play/leisure. An introduction to the domain of occupational therapy is included. U/G Credits: 3

### **OTBS 30600 Occupational Apartheid *NEW***

Expands on content from OTBS 10600. The premise of occupational justice will be explored: personal, political, historical, sociological, cultural, and environmental influences on individual. Engagement in occupation will be analyzed in relation to occupational apartheid. Application of methods to ameliorate identified problems will be incorporated. U/G Credits: 3

## **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 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 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 27300 The Iroquois and their Neighbors *NEW***

Traces the development and current state of the Iroquois people, a vibrant and powerful Native American society of the Northeast. Looks at how the Iroquois developed out of earlier societies and what role European contact played in their development. A substantial part of the course will be an assessment of the Iroquois today, including their social, economic, and political institutions. Additional information on neighboring societies, past and present, and their interactions with the Iroquois will also be addressed. U/G Credits: 3

### **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, co-managing lands such as national parks, and developing educational outreach programs. U/G Credits: 3

### **ANTH 27800 Northeastern Native Americans: Past and Present *NEW***

An examination of the past and present of indigenous peoples throughout northeastern North America. A background survey of the archaeological chronology covers groups ranging from hunter-gatherers to great confederacies. Themes that cut across time periods and regions of the Northeast are studied, such as cultural ecology, resource use, gender, migrations, plant cultivation, ritual, ideology, and politics. The effects of the Euro-American contact period and the Revolutionary War are examined. Local contemporary issues discussed include revitalization movements, land claims, gaming, and the negotiation/survival of tradition. 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 31100 Primate Behavior and Ecology** *NEW*

Primates are among the most social animals. Why do nonhuman primates behave as they do? This course seeks to answer this question by reviewing the extensive variation in primate behavior and ecology and the evolutionary basis of the differences. The emphasis is on understanding the adaptive significance of the many diverse facets of primate social behavior within an ecological context. The class highlights current research issues in the field of primate behavioral ecology and examines how research is conducted and reported. Students will conduct a zoo observation study on the nonhuman primate and behavioral topic of their choice. U/G Credits: 3

#### **ANTH 37200 Native American Women and Culture** *NEW*

This seminar examines the diversity and commonalities of Native women's voices and experiences in multiple cultural contexts. This course explores the representation and misrepresentation of Native women by missionaries, colonists, historians, writers, and anthropologists. Perspectives of Native women as anthropologists, authors, clan mothers, and storytellers are emphasized. Political, economic, and spiritual roles of Native American women are discussed, with an emphasis on the Haudenosaunee (Iroquois). Other topics include mythology, health and healing, and the contributions of Native women to the American feminist movement, human rights, and environmental activism. 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 38100 Anthropological Experience in Hawaii** *NEW*

A fieldwork-based study of the anthropology of Hawaii. The anthropological perspective is a holistic orientation that entails not just examining one aspect of culture, but exploring the interconnections between many facets of cultural history and contemporary experience. This is accomplished through a grounding in Hawaiian history and archaeology, followed by an examination of traditional agriculture, lifeways, multiculturalism, and the impact of colonization, tourism, and the native sovereignty movement. Specifically, students learn through participant observation in contexts of Hawaiian healing, sacred sites, traditional taro growing, and preserving indigenous ecology at an ethnobotanical preserve. 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 11100 Understanding Biotechnology: Promise and Problem** *NEW*

This is a course for the *non-science major* with an interest in understanding the field of biotechnology, its applications, promises and associated controversies. The goal of this course is to help you become a more fluent consumer of biotech information and products, with a focus on building a sustainable future and understanding scientific inquiry. In this course you will learn about the basic, underlying, biological concepts through lecture, discussion, video and hands-on projects. You will also learn about some of the major techniques of the field, how these techniques work, and how they are deployed to address scientific problems. This course also involves student-lead discussion/debate of current issues in the field. This final project is designed to help you develop your skills in crafting, communicating, and defending an argument. Topics for final presentations will specifically address questions/controversies around applying biotechnological solutions to current and future problems of sustainability (for example: energy, food security, environmental remediation, engineering human health). U/G Credits: 3

### **BIOL 11010 History of Life on Earth** *NEW*

The eminent evolutionary biologist and author Stephen Jay Gould once proclaimed that if the tape of life were rewound and played again, a completely different evolutionary outcome would result. This makes the history of life on Earth a truly unique and amazing story! Throughout life's nearly four-billion-year past, countless forms have evolved, diversified, and ultimately gone extinct. From the earliest bacteria, to the most spectacular of dinosaurs, to our modern flora and fauna, the history of life tells a story of not only an ancient planet, but the roots of our own ancestry. All life is related and all life has a history. This course is designed to help you understand how we know about our planet's past, the ever-growing tree of life, humanity's ancestry and our current biodiversity crisis. 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 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 20401-01 Biology of Oceanic Islands (Honors) *NEW***

This course will include a combination of biological and cultural components pertaining to islands in general, and using the Caribbean as a special case study. The course prepares students for a 10-day trip in January 2014 aboard the SSV Corwith Cramer, a 134 foot steel brigantine owned and operated by our affiliates at SEA Semester. During the Fall academic semester, students will learn about various aquatic systems (e.g. estuaries, mangroves, coral reefs, lagoons, beaches, intertidal zones, and open water), the flora and fauna of coral reefs, and the impacts of climate change and other anthropogenic effects on these systems. We will also examine the interplay between human and the environment through history; for example, understanding the impacts of human movement through the introduction of diseases and non-native organisms to islands. Students will learn basic aquatic sampling and measurement techniques in upstate New York on Seneca Lake in preparation for similar such measurements aboard the SEA vessel in the Caribbean. Through independent projects within the course, students will generate knowledge on a specific subtopic and will be responsible for learning and presenting information on that topic. U/G Credits: 3

#### **BIOL 20402 Biology of Oceanic Islands Winter Session Practicum *NEW***

This course consists of a 10-day trip aboard the Corwith Cramer a 134 foot steel brigantine tall ship that is owned and operated by our affiliates at SEA Semester. The ship will depart from San Juan, Puerto Rico. While on board, we will study subtropical ecology of the Caribbean and consider the current and historical anthropogenic influences on various ecosystems. During this trip, we will gather a variety of oceanic measurements (temperature, salinity, phosphate, oxygen, chlorophyll, planktonic mass and diversity, sediment size) and compare these measurements between shelf, slope, deepwater, and loop current locations. We will stop at Culerba, which is a National Wildlife Refuge which is located west of the British Virgin Islands and spend a day examining an estuary and mangrove communities. Classes onboard will demonstrate oceanographic collecting and measuring techniques, seamanship (e.g. dead reckoning, marlinspike), and will discuss historical voyages and challenges. U/G credit: 1

#### **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 30400 Selected Topics: Invasive Species *NEW***

Invasive species are considered one of the major ecological crises of today, but what makes them so different? In this course, we will explore the biology of invasive species, and the process and impacts of their invasion. We will use current literature on this active field of inquiry to learn about current hypotheses on how and why invasive species succeed. U/G Credits: 3

### **BIOL 30800 Animal Behavior *NEW***

Explores the proximate causes and ultimate evolutionary explanations for the behavior of animals. Introduces the study of behavioral ecology by examining basic ecological problems and evaluating the behavioral solutions animals use to solve them. Lecture topics include the development of behavior, control of behavior, communication, adaptive response to predators, adaptive feeding behavior, male and female reproductive tactics, the evolution of mating systems, adaptive tactics of parents, and social behavior. Emphasis in the laboratory is placed on observation and an experimental approach to animal behavior. U/G Credits; 4

### **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, arctic), moisture (rainforests, wetlands, ocean), light (alpine, 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 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 40500 Parasites and Vectors of Disease** *NEW*

General survey of parasitism throughout the animal kingdom, with special attention to parasites important to human and veterinary medicine. Topics include: systematics, morphology, and life cycles of parasites; coevolution of hosts and their parasites; the use of parasites and parasitoids as biological control agents of pest species; and the influence of parasites on population biology and community structure of host species. 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 10100 Chemistry and Your Body** *NEW*

A course designed for students who have chosen to major in areas other than science. An introduction to the basic ideas of chemistry, the nature and structure of chemical compounds, and the meaning of chemical symbols. An application of these ideas and understandings to the chemistry of the body, with specific discussion of food, drugs, cosmetics, and other health-related topics. U/G Credits: 3

### **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 occurring 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 43200 Bio-Organic Chemistry *NEW***

Covers the modern interface of chemistry and biology, as well as an examination of current developments in biotechnology. Topics include combinatorial chemistry and modern synthetic methods, protein engineering, innovative approaches to drug design, enzyme mimics, and in vitro evolution of functional biopolymers. U/G Credits: 3

### ***Culture and Communication***

#### **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 20300 Special Topics in Media Literacy *NEW***

Using the principles and practice of media literacy, this course will examine how media messages are constructed and how they affect our individual and collective understanding of specific topics. Students will develop critical decoding skills through analysis of current and historical media documents. A wide range of media forms will be explored, including digital, audio, audiovisual, and print-based media. Each year the seminar will focus on a different topic reflecting current issues and media literacy curricula developed at the College (e.g., environmental issues, social justice, peace and war). 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

### ***Communication Studies***

#### **CMST 32400 Rhetoric and Social Order *NEW***

Study of the rhetoric and persuasion of social groups. Focuses on communication strategies used by leaders and/or members of social groups in advocating social change, and the communication strategies of social control in response. U/G Credit: 3

#### **CMST 45100 Communication and Social Influence *NEW***

Examination of current theories of social influence and their relationship to communication. Focuses on analyzing current persuasion practices in terms of theories such as social learning and self-persuasion, attribution theory, information processing, and social change. U/G Credit: 3

## ***Economics (ECON)***

### **ECON 11500 Current Economic Issues *NEW***

The study of economic issues tied to selected topics, such as unemployment and inflation, budget deficits, health care reform, trade policy, poverty, discrimination and welfare reform, environmental pollution control policy, and energy policy. U/G Credits: 3

### **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 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 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 20012-01 Wilderness in the Western Mind (Honors Seminar) *NEW***

When Europeans first encountered the North American wilderness, they encountered old-growth forests, which they cut; wild game, which they hunted; and indigenous peoples, whom they feared as devil-worshipping savages. Notions about wilderness as a dangerous, alien space to be subdued and exploited, notions that the first colonists brought with them, are the rich, provocative, and exciting subject-matter of this course. The readings will include classic works of environmental and postcolonial criticism, literature that reflected and shaped Western thinking about the meaning and value of wilderness, and historical studies of the European and American landscapes before the Age of Discovery. Because we will be looking at North America, the focus will be primarily on the culture of medieval and early modern England, including also the Biblical and classical ideologies that it inherited from the ancient world. Besides students interested in literature and history, the course seeks to attract two other constituencies. Because the issue of recapturing wilderness drives debate about the US National Parks, the course welcomes students in the "Partners in the Parks" program; and because the course involves historical study of the environment, it welcomes students in the sciences and in Environmental Studies. From a reading of literature, literary criticism, and histories of landscape, students will develop an understanding of the cultural influences that shaped the reaction of North American settlers to the wilderness they found here when they arrived (Historical Perspective); and from reading and analyzing a variety of literary texts from ancient through early modern, students will practice and improve their skills in original research, essay-writing, and oral presentations. U/G Credits: 3

## ***Environmental Studies and Sciences (ENVS)***

### **ENVS 10400-01 Gardening Principles and Practices** *NEW*

Learning outdoors in the student-run organic and permaculture gardens, this hands-on course will enable you to work with soil and plants, and to learn about the conscious design of landscapes and social networks that care for them. U/G Credits: 1

### **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 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 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 14000 Introduction to Herbalism**

Introduction to the principles of herbal medicine in the western herbalist tradition. Exploration of the conceptual models inherent in orthodox western modern medicine and in the vitalist medical traditions. Discussion of herbs and wellness, and experiential opportunities to engage in plant identification, ethical harvesting, and wildcrafting techniques. U/G Credits: 3

### **ENVS 14001 Summer Intensive in Local Food and Farming**

Intensive field-based experience providing an in-depth analysis of localized food systems as a component of the sustainability movement. Examination of the strengths, problems, and barriers to our regional food shed through the lenses of local agriculture and farming practices, food distribution and retail networks, consumer demand and food accessibility, as well as agricultural and land-use policy. Includes field trips to local farms and food related businesses. U/G Credits: 2 credits

### **ENVS 14200 The Art and Science of Tracking**

Field-based course that focuses on combining the skills and knowledge base of the traditional animal tracker with modern ecology. Topics include natural history, clear print track identification, track aging, gait analysis, and soil movements. U/G Credits: 2

### **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. U/G Credits: 1-3

### **ENVS 20200 Topics in Sustainability: Social Justice and Sustainability: Strategies for Change**

In this course we study and practice strategies for creating systems change towards a fair and life-enhancing society, approaches which paradoxically also require personal transformation. Key skills we develop include: systems thinking and ecological redesign; undoing oppressive “isms” and reshaping our social narratives; cultivating inclusive and sustainable behaviors; facilitating cooperative initiatives; and building social movements. This course requires and engenders reflection, courage, openness, and leadership, and is best suited for people who want to stretch their boundaries and develop positive connections and collaborations with our local community. We will study a small number of texts and other instructional materials in depth and create a classroom learning community that draws on the course resources, and the experiences and interests of students, as well as local change agents in a variety of justice and sustainability initiatives. Monday’s class will focus on group learning and skills training, with input from community presenters. Wednesdays are about applying and integrating the learning through community projects that involve social or ecological renewal. An additional two hours of project time in the community is also required. While this class has less reading than most courses and no exams or long papers, the weekly assignments and project work require as much time, energy, and commitment as any challenging 4-credit course. U/G Credits: 3

### **ENVS-20200 Topics in Sustainability: Community Projects for Justice and Sustainability**

This course is an opportunity to learn about just and sustainable community development by being an integral and positive part of the process – through:

- Trainings in effective community work
- Team projects in our local community, linked to pioneering initiatives
- Presentations, discussion and feedback sessions based on the projects
- Field trips and class presentations with innovative community leaders
- Functioning as a learning community, and
- Study, reflection and personal change work.

We will focus initially on the deep challenges to effective collaboration and healthy community posed by race and class inequity, both institutionalized in our society and internalized in each of us. We will also establish the importance of systems thinking and place-based and community-based learning in coming up with sustainable solutions. These themes will help us explore inspiring projects and strategies that bring together social justice and ecological sustainability, while we practice skills and utilize tools linked to these programs. Team projects, guided by community mentors, will engage participants for 4 hours a week in supporting a variety of community building initiatives in such areas as community food security, home energy conservation, reuse industries and green job development, and educational equity. U/G Credits: 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 Rainforests, Reefs, and Ruins: Belize Case Study**

Focus on the environment and culture in Belize as a case study to explore topics including: structure and function of tropical ecosystems and Mayan civilization, factors leading to high biodiversity in the tropics, importance of biodiversity to human civilization, and threats to these ecosystems. U/G Credits: 3

#### **ENVS 20500 Belize Immersion *NEW***

Two-week cultural immersion course in Belize. Activities include deep jungle overnight trips, home stays with Belizean families, and service learning. Students are responsible for additional course fees for study abroad component. Course may be used to fulfill ENVS cultural immersion requirement. U/G Credit: 1

#### **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. Course may be repeated once for credit. 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**

This course takes concepts from Chemistry, Earth System Science, and Physics to study a number of different environmental issues, all the way from how we insulate our houses to how global climate change works. This is a problem-based, hands-on course that will require both a quantitative and qualitative analysis of data collected by students. U/G Credits: 4

### **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 25000 Environmental Geology** *NEW*

We will start with an investigation of the formation and history of the earth along with the minerals and rocks that make up the solid planet. We will then further explore the details of different tectonic regimes. Interactions between water and the solid earth will be covered and we will explore how this affects the human environment and how humans impact these processes. Lab will be used to explore concepts introduced during lecture with a focus on outdoor work. U/G Credits: 4

### **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 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 32300 Research Design Workshop** *NEW*

Explore the processes involved in conducting scholarly work and build the skills you need to conduct your own research here at Ithaca College or in your future career. Throughout the semester you will be exposed to real-world applications of research design, including developing research questions, constructing testable hypotheses, designing experiments, analyzing and presenting data, and presenting results and conclusions verbally and orally. We will focus on designing questions derived from local environmental problems. Your final project is an independent research proposal which you will submit in written format and defend orally. U/G Credits: 3

### **ENVS 33100 Topics in Geography and Planning: Water Resources and Society**

This course takes a human-environment geographer's perspective, posing the following questions: What are the vital roles played by fresh water in specific cultures in specific places? What are the biophysical and social processes that determine water-use patterns? In addressing these questions we will engage diverse, interdisciplinary perspectives on fresh water and its utilization by society. In the geographic tradition, this course engages multiple dimensions of water use, including history, economics, policy, politics, ideology, ethics, culture, and of course, science--all in pursuit of sustainability. U/G Credits: 4

### **ENVS 33100 Topics in Geography and Planning: Land use and Landscape Change**

Intermediate course with a different focus each semester. Topics include demographics, city and regional planning, land use, and topography. The main projects involve on-the-ground management activities at Ithaca College Natural Lands sites, such as boundary mapping and marking, signage, etc., and a draft management plan for a proposed nature preserve to be managed by the Finger Lakes Land Trust. The class will be spending any classroom time discussing readings and examples of "land-change science" in action throughout the world. U/G Credits: 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 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: Non-Timber Forest Products**

Be prepared to go outside and get your hands dirty doing something real! In this hands-on Learning-by-Doing experience students will manage, produce and sell maple syrup, edible mushrooms, honey, edible and medicinal plants, and other non-timber forest products. You will gain valuable experience working in all aspects of our student-run businesses. U/G Credits: 3

### **ENVS 35000 Topics in Natural Resources and Ecology: Farming the Forest**

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. U/G Credits: 3

### **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**

We will read, discuss and apply environmental ethics theory focused on the human connection with nature. We apply those value-based theories to case studies and also hold a few debates throughout the semester. Topics are intended to drive at decisions you may encounter in the environmental field, arming you with the tools to see multiple sides of controversial topics. You will also have an opportunity to explore issues that interest you personally. 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 38000 Selected Topics in Field Studies: Sustainability in the Amazon**

In May, we will travel to Ecuador, where we will immerse ourselves in the ecology and cultures of the headwaters of the Amazon Basin. Ecuador offers us the ability to look at two indigenous cultures, the Karanki and the Achuar, that are choosing sustainability over development. In the Andean Highlands and headwaters of the Amazon, the Karanki community collectively decided to abandon their tractors in favor of more sustainable farming practices and to pursue ecotourism as a source of income. The Achuar's territory of two million roadless acres of pristine rainforest is under pressure for oil development on the scale that ruined the northern part of the Ecuadorian Amazon Basin (Chevron's ongoing lawsuit). They are also pursuing limited ecotourism as a way to stave off this oil development. We will have the opportunity to experience sustainability as these two cultures practice it on a daily basis, including trekking, canoeing, and home stays. This course can be used to fulfill the ENVS cultural immersion requirement. Additional course fees apply (approximately \$2900 plus airfare). U/G Credit: 1



### **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 38200 Topics In Environmental Policy: Sustainability in the Amazon**

Intermediate course with a different focus each semester. Topics may include local and regional policy, select national issues, or the role of indigenous peoples in national and international agreements. This semester we will focus on the ecology and cultures of the Amazon Basin through the lens of sustainability. Through reading and discussing primary literature, historic accounts, and popular books, we will learn about the environmental and economic importance of the Amazon River Basin and the various cultures that have developed and adapted to this ecosystem. We will investigate the threats to the Amazon Basin from agricultural development, mineral exploration, oil and gas operations, and tourism. We will then explore the role of indigenous groups in national and international environmental policy and community based plans to achieve sustainability. U/G Credits: 3

### **ENVS 39000 Gardening Principles and Practices – Course Assistants**

Leading projects in the student-run organic and permaculture gardens, and collaborating with instructor to teach course material. U/G Credit: 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 locations. U/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

## ***Gerontology (GERO)***

### **GERO 10100 Introduction to Aging Studies *NEW***

Introduction to the broad spectrum of issues involved in the study of aging. Biological, psychological, and sociological concerns, in addition to services for the elderly, are presented in survey fashion. Field trips, lectures, discussions, and demonstrations comprise the instructional methods. U/G Credit: 3

### **GERO 21000 Health and Aging *NEW***

Examines the health status of older adults in the U.S. and the impact it has on longevity and quality of life in the later years. Includes factors that affect the health and longevity of older Americans, health challenges in later life, prevention and health promotion, the need for culturally competent health care for older adults, and end of life choices and issues. Explores how U.S. health policy and the health care system affect the lives of older adults. U/G Credit: 3

### **GERO 22000 Sociology of Aging *NEW***

Examination of the prominent sociological theories and research about aging and the ways in which the experience of aging is socially constructed. U/G Credit: 3

## ***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

## **Mathematics**

### **Math 16100 Math and Society** *NEW*

Explores connections between mathematics and the liberal arts. Covers three to six topics chosen for their mathematical and societal component, with comparable emphasis given to each component. Actual course content varies with instructor, but examples of topics are exponential growth and world population; symmetry and group theory in art and architecture; fair allocation and equity; binomial models and the death penalty; quantitative communication and the media. U/G Credits: 3

### **MATH 26502-01 Oil, Energy, and the Future of Society (Honors)** *NEW*

This course will examine why past societies have collapsed and scientifically examine our current energy consumption, with special attention to oil, and how this consumption may impact our future. We will be using Jared Diamond's book, *Collapse: How Societies Choose to Fail or Succeed*, to provide scientific criterion to analyze past societies and to provide some historic perspective. At the same time we will analyze our current energy consumptions with a focus on peak oil to try and decide if we are currently choosing to fail or succeed. Students will gain a scientific perspective of past societies and gain data analysis skills to understand our current energy situation. U/G credits: 3

## **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 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 14300 Power: Energy Options for a Global Society**

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 looks 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 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 12900 Explorations in Global and Comparative Studies**

Examines global issues, including culture and identity formation, globalization, human rights, the environment, and militarism. National and international public policies are examined critically and policy alternatives are explored, as are individual responses and responsibilities. Utilizes country case studies, international simulations, literature and film and emphasizes global awareness. U/G Credits: 3

### **POLT 19501 Food & Water Sustainability *NEW***

At some level, we may think we know what it means to eat and drink sustainably. This course will challenge conceptions by examining different, and often conflicting definitions of sustainability. Then, even if we do agree to eat and drink differently, we face challenges in changing individual behavior and social patterns in more sustainable directions. This course will look at the many actors and obstacles involved in defining and shaping our choices regarding food and water. Political systems privilege certain ideas and also specific interests. Economic structures and patterns limit our choices. Anthropological, cultural, and sociological backgrounds structure our options. Biological and psychological predispositions affect our ability to eat and drink sustainably. Students will consider the "simple" acts of eating and drinking from all of these perspectives. Students will be challenged to understand the potential for changing patterns of consumption, examining their own choices, their communities, and the socio-political system in which we are embedded. 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

### **POLT 40108 Seminar: Citizenship and Social Movements** *NEW*

This seminar focuses on a topic of current relevance in the contemporary world: citizen activism and its impact. The course will look at the major debates surrounding the emergence, buildup, and sustained impact of social movements struggling for the following issues: labor/social rights, LGBTQ/gender rights, student/youth activism, and indigenous and environmental rights in a variety of political contexts in Latin America, Africa, Asia, U.S. and the Middle East. By examining the goals, strategies, constraints and consequences of activism in different parts of the world and at different moments/places in time, we can begin to understand what it means for different groups to exercise citizenship rights and voice regarding alternative visions of social, economic, political, and cultural processes, and especially the personal and political challenges that 'voice' both confronts and poses. U/G Credits: 3

## ***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 24603 Selected Topics In Social Change: Food, Ecology And Society** *NEW*

Where does our food come from? In what ways has food production and consumption changed in the modern era? How does the study of food help us understand society and global processes of social change? This course is an introduction to the relationship between food and modern global society. 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 25000 Gender, The Environment and Global Change** *NEW*

Explores interconnections between gender and the environment. Studies patriarchy, colonialism, capitalist development, globalization, and environmental crises. Special focus on case studies of social movements that challenge gender hierarchies and environmental degradation, including feminist, indigenous, and environmental justice movements. 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

## **Writing**

### **WRTG 31700 Proposal and Grant Writing**

Advanced workplace writing concentrating on proposals and grants. Students address problems in the local community while studying the interplay among business, education, government, and nonprofits. Attentive to civic responsibility in the marketplace, this course teaches research and assessment, project management, editing, and document design. Group work emphasizes social networks and service learning. U/G Credits: 3

### **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: 194**

**Number of academic disciplines represented: 38 out of 41 non-clinical/professional disciplines**

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: 104**

**Number of Sustainability-related courses: 90**

**NEW** courses added since 2011: **52**