

**Sustainability Focused and Related Course List
University of Connecticut
Storrs Campus**

Undergraduate Courses Focused on Sustainability			
Department	Course Number	Course Name	Description
ARE	Agricultural and Resource Economics		
ARE	1110	Population, Food, and the Environment	The role of agriculture in the growth and development of societies throughout the world. Economic, social, and environmental problems of food production and resource needs in developing and advanced societies
ARE	1150	Principles of Agricultural and Resource Economics	An introduction to agricultural economics, the role of agriculture in today's United States economic system, and relationships that regulate the entire economic environment.
ARE	2235	Marine Economics and Policy	Fundamental theory, methods, and policy implications of environmental and resource policies and economics, with an emphasis on coastal and marine environments. Topics include fisheries management, aquaculture production, marine biodiversity, non-renewable and renewable ocean energy, marine pollution, international ocean governance, anthropogenic climate change impacts, and integrated management and conservation approaches. Designed for students with diverse departmental affiliations
ARE	3260	Food Policy	Analysis of food and agricultural policies in the United States and abroad. Designed for students with diverse departmental affiliations.
ARE	3261W	Writing in Food Policy	A writing intensive course on issues related to food policy, integrated with course content in ARE 3260.
ARE	3434	Environmental and Resource Policy	Economic and policy aspects of natural resource use and environmental quality issues. Designed for students with diverse departmental affiliations.
ARE	3436	The Economics of Integrated Coastal Management	Explores the theory and practice of integrated coastal management (ICM); introduces major concepts, processes, tools and methods of ICM; and analyzes United States and international experiences with ICM.
ARE	3437	Marine Fisheries Economics and Policy	Explores the various natural, human and management components of the fishery system and presents the application of economic and policy analysis for the optimal allocation of resources to a fishery.
ARE	3440W	Writing in Environmental and Resource Policy	A writing intensive course integrated with course content in ARE 3434.
ARE	4305	The Role of Agriculture and Natural Resources in Economic Development	The role of agriculture in the economic development of less developed economies. Microeconomic dimensions of agricultural development, economics of food consumption and nutrition, agricultural technology and productivity, agricultural supply, land tenure and agrarian reform, foreign assistance, trade agreements and agricultural price policy.

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ARE	4438	Valuing the Environment	Conceptual and practical understanding of main methods used to evaluate economic benefits of environmental protection and damages from degradation. Methods include: change in productivity, hedonic pricing, travel cost method, contingent valuation, defensive expenditures, replacement costs, and cost-of-illness. Topics covered include: recreation, soil-erosion, energy, forestry, hazardous waste, air pollution, deforestation, wetlands, wildlife, biodiversity, noise, visibility, water and water pollution.
ARE	4444	Economics of Energy, Climate, and the Environment	Economics of energy issues with special reference to local and regional environmental quality, global climate change, and energy markets. Environmental and economic implications of developing alternative sources of energy. Regulatory policies in relation to transportation, industry, commercial and residential energy use.
ARE	4462	Environmental and Resource Economics	Natural resource use and environmental quality analysis using economic theory. Reviews of empirical research and relevant policy issues.
AGNR	Agriculture and Natural Resources		
AGNR	1098	Current Topics in Agriculture and Natural Resources	Readings, lectures, seminars, and field applications exploring content and associated scientific and social implications of current topics in agricultural, environmental, nutritional and health sciences.
AH	Allied Health		
AH	3174	Environmental Laws, Regulations, and Issues	Overview of the history and framework of federal environmental legislation to protect the environment along with environmental issues, laws and regulations associated with industrial operations.
AH	3175	Environmental Health	Course will focus on the environmental health consequences of exposure to toxic chemicals, food contaminants and radiation. Basic principles of toxicology will be discussed, followed by lectures on specific topics such as: cancer, occupational hazards, radiation, genetic biomonitoring, risk assessment techniques, risk/benefit analysis, social/legal aspects of regulating toxic chemicals, and other related topics.
AH	4570	Pollution Control, Prevention and Environmental Management Systems	Basic knowledge of environmental management systems, and techniques in controlling and preventing pollution from industrial activities.
ANTH	Anthropology		
ANTH	1010	Global Climate Change and Human Societies	A multidisciplinary examination of the nature, anthropogenic drivers, range of expressions, and impacts of contemporary and future global climate change as well as cultural understandings of this significant environmental process and diverse human responses to it.
ANTH	3027	Contemporary Native Americans	Analysis of Native American reservations and urban communities and their relationship to the larger U.S. society. Special focus on federal policy and economic development, cultural identity, and politics of Native Americans.
ANTH	3028	Indigenous Rights and Aboriginal Australia	An introduction to the study and understanding of Aboriginal ways of life and thought. An exploration of the complexity of contemporary indigenous social orders and land rights issues.

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ANTH	3041	Latin American Minorities in the United States	Emphasis on groups of Mexican, Puerto Rican and Cuban origin, including treatment and historical background, social stratification, informal social relations, ethnic perceptions, relations and the concept of Latino identity.
ANTH	3153W	Human Rights in Democratizing Countries	Human rights, political violence, political and legal anthropology, prosecutions of human rights offenders, truth and memory, reconciliation, international justice.
ANTH	3200	Human Behavioral Ecology	The application of the theory of natural selection to the study of human culture and behavior, with emphasis on the interaction between humans and their environment.
ANTH	3302	Medical Ecology	Anthropological perspectives on the interrelationships among culture, biology, environment, and disease. Major topics include ecology and adaptation, population dynamics, nutrition, reproduction, disease in sociological context, health seeking behavior, and the complexity of the interaction of western and non-western medical systems.
ANTH	3309	Violence and Human Rights	Violence and human rights as cultural constructs; human rights claims; war, genocide, terrorism, street crime, domestic violence; deterrence and intervention policy.
ANTH	3325	Introduction to Global Health	Anthropological perspectives on public health in a globalized world, health inequalities within and across countries; diverse social, cultural, and other determinants of global health; pressing global health issues; organizational players involved in addressing global health issues.
ANTH	3326	Global Health and Human Rights	Theories, methods and controversies in the interconnected fields of global health and human rights.
ANTH	3339	Cultural Designs for Sustainability	Correspondences among cultural institution design, collective action failure and success, and cultural resilience.
ANTH	3340	Culture and Conservation	Interdisciplinary analysis of conservation and the human-environment relationship from a cross-cultural perspective. Major topics include sustainability, environmental ethics, climate change, natural disasters, health, and environmental justice.
ANTH	3350	Anthropological Perspectives on Women	Major conceptual and historical problems in the study of gender in anthropology. Women's roles in different historical and contemporary settings, and new understandings of family, kinship, power, and cultural ideologies.
ARTH	Art History		
ARTH	3575	Human Rights and Visual Culture	The problematics of visual representation and media in defining, documenting and visualizing human rights and humanitarianism from the 19th century birth of photography to 21st century social media.
BLAW	Business Law		
BLAW	3175	Legal and Ethical Environment of	The meaning of law and the structure of the legal and regulatory system are studied with a view
CHEM	Chemistry		
CHEM	4370	Environmental Chemistry -	Sources, transport, effects, fate, analytical chemistry, monitoring and management of chemical
CHEM	4371	Environmental Chemistry -	Sources, transport, effects, fate, analytical chemistry, monitoring and management of chemical

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CE Civil and Environmental Engineering			
CE	2010	Civil and Environmental Engineering Professional Issues Seminar	Issues in the practice of Civil and Environmental Engineering: professional ethics, law/contracts, insurance/liability, global/societal issues (e.g., sustainable development, product life cycle), management, business, public policy, leadership, construction management and professional development and licensure.
CE	2210	Decision Analysis in Civil and	Time value of money. Evaluation of alternative projects. Fundamentals of probability theory and
CE	2211	Engineering Economics I	Time value of money. Simple, compound, nominal, and effective interest rate. Present, future, and annual worth methods. Single payment, annuity series, gradient series. Rate of return method. Evaluation of alternative projects.
CE	2310	Environmental Engineering Fundamentals	Concepts of aqueous chemistry, biology, and physics applied in a quantitative manner to environmental problems and solutions. Mass and energy balances, chemical reaction engineering. Quantitative and fundamental description of water and air pollution problems. Environmental regulations and policy, pollution prevention, risk assessment. Written and oral reports.
CE	3530	Engineering and Environmental Geology	Application of geological principles to engineering and environmental problems. Topics include site investigations, geologic hazards, slope processes, earthquakes, subsidence, and the engineering properties of geologic materials. Course intended for both geoscience and engineering majors.
COMM Communication			
COMM	4460	Cross-Cultural Communication	Communication behavior within and across cultures and subcultures.
DIET Dietetics			
DIET	3230	Community Nutrition	Role of community structure, agencies, and resources in the community health relating to nutrition.
DIET	3235	Community Nutrition Practicum I	Supervised practice experiences in community agencies.
DIET	4435	Community Nutrition Practicum II	Application and synthesis of performance requirements in community nutrition.
EEB Ecology and Evolutionary Biology			
EEB	2208	Introduction to Conservation Biology	Patterns of biodiversity and extinction; causes of extinction and population declines; ecological restoration; conservation planning; protection of ecosystem services; implementing conservation actions; conservation economics; conservation law; effects of global change.
EEB	2244	General Ecology	Fundamental ecological dynamics of communities, populations and ecosystems, with emphasis in discussion sections on reading primary literature, problem-solving, and exposure to ecological research techniques.
EEB	2245	Evolutionary Biology	Introduction to evolutionary mechanisms, biogeography, and the history of major groups of plants and animals.
EEB	3203	Developmental Plant Morphology	Analysis of diversity in plant form; principles of plant construction and development.

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EEB	3204	Aquatic Plant Biology	Field and laboratory-oriented study of the anatomy, morphology, ecology, physiology, systematics and evolution of vascular aquatic and wetland plants.
EEB	3205	Current Issues in Environmental Science	Readings and discussions of current issues in environmental science, emphasizing linkages between earth, oceans, atmosphere, and biosphere. Topics include: climate change; watershed changes; alternative energy; population growth; endangered biodiversity; genetically-engineered organisms; deforestation/restoration; risk assessment; tradeoffs; problem-solving; alternative futures.
EEB	3220	Evolution of Green Plants	Evolution of morphological and genomic traits marking the conquest of land, the diversification of land plants, and the significance of plants in the evolution of life on earth, global climates and human civilizations. Laboratory session includes study of morphological and anatomical characters of extant and fossil plants, phylogenetic inference from morphological and molecular characters, and discussion of primary literature.
EEB	3230	Marine Biology	The study of the kinds and distributions of marine organisms. Particular attention is paid to biotic features of the oceans, organism-habitat and relationships and general ecological concepts influencing marine populations and communities. Field trips are required.
EEB	3245	Evolutionary Medicine	Introduction to evolutionary concepts and hypotheses related to disease and human health, and applications of evolutionary thinking in drug discovery, vaccine design, and development of treatment plans for various diseases.
EEB	3247	Freshwater Ecology	Linkages among physical, chemical and biological processes in freshwater habitats.
EEB	3254	Mammalogy	Diversity, behavior, reproduction, ecology, and evolution of mammals. Laboratories cover anatomy, systematics, and distribution of major groups of mammals. Field trips required.
EEB	3256	Plants and Civilization	Plants and animals used by people; origin, history, biology, distribution, and role in development of civilizations.
EEB	3260	Medical Botany	Plants used for medicine: their origin, history, biology, distribution, chemistry, pharmacology, toxicology, and role in the development of civilizations.
EEB	3265	Herpetology	Physiological ecology, reproductive biology, behavior, and community ecology of amphibians and reptiles. Laboratories cover evolution, systematics, and distribution of amphibians and reptiles of the world. Field trips required.
EEB	3266	Field Herpetology	Field-intensive study of diversity, ecology, physiology, behavior, adaptation and identification of the amphibians and reptiles of the region; herpetofaunal research methods. Field trips required.
EEB	3269	Social Insects	Behavior, ecology, evolution of social insects: ants, wasps, bees, and termites.
EEB	3271	Systematic Botany	Classification, identification, economic importance, evolution and nomenclature of flowering plants. Laboratory compares vegetative and reproductive characters of major families.
EEB	3894	Undergraduate Seminar	Credits and hours by arrangement. May be repeated for credit with a change in topic. Content varies with instructor.

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EEB	4120	Paleobiology	Ancient life, including the preservation of organisms as fossils, evolution, ecology, geobiology, biostratigraphy, and major events in the history of life. Includes microorganisms, animals, and plants.
EEB	4215	Physiological Ecology of Animals	Physiology of animals in an evolutionary context: how individuals cope and how species adapt to natural environments. Lectures, student-led presentations, and critical discussions of current journal articles.
EEB	4230W	Methods of Ecology	An intensive introduction to field and laboratory methods in ecology. Emphasis will be placed on the use of quantitative and analytical techniques in physiological, population, community and ecosystem ecology. An introduction to sampling procedures, data collection and statistical analysis. Computers will be used to model population and community dynamics and to analyze ecological data sets. Laboratory periods will consist of field and laboratory problems; field trips required, including occasional weekend trips.
ECON	Economics		
ECON	1107	Honors Core: Economics, Nature, and the Environment	Impact of nature on societies; effects of geography and climate on economic development and income inequality. Impact of humans on their environment; environmental problems; collapse of societies; sustainable development
ECON	1108	Game Theory in the Natural and Social Sciences	Introduction to game theory. Applications in the natural and social sciences and technology may include electric power auctions, evolutionary biology, and elections.
ECON	1179	Economic Growth and the Environment	Simple economic concepts and tools and their application to the interactions between growing economies and the environment. Concepts include: supply and demand; models of economic growth; theory of externalities; valuation of natural capital and environmental services; trade theory.
ECON	2127	Beyond Self-Interest	A contrast to the assumptions, values, methodology, and philosophical underpinnings of mainstream economic analysis. Altruism, role of social norms and culture, importance of work, moral assessment of economic systems, feminist and ecological economics.
ECON	2441	Labor Economics	Economics of labor: human capital theory, discrimination, unemployment, manpower policy, and trade unions.
ECON	2445	Economic Foundations of Gender Inequality	Economic approaches to gender inequality in political representation, economic opportunities, access to education, and health.
ECON	2456	Economics of Poverty	Analysis of poverty and income maintenance programs: theories of income distribution and comparison of public policies in the U.S. and other countries.
ECON	3128	Economic and Social Human Rights	Conceptual bases, types, measurement, and policy applications of economic and social human rights.
ECON	3451	Health Economics	Economic analysis of the health sector: organization and performance of health care delivery systems; economic behavior of patients and providers; markets for health services; health-care finance and insurance; health-care policy; and cost-benefit analysis of health-care programs.

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ECON	3466	Environmental Economics	Application of economic reasoning to environmental issues. Topics include air and water pollution and the management of natural resources; market failure and environmental regulation; market-based mechanisms; cost-benefit analysis, environmental valuation, and program evaluation; environmental justice from an economic perspective.
ECON	3468	Economics of the Law	The law as an economic institution. Primary focus on the Common Law, property, tort, and contract. Applications to pollution control, land-use, hazardous wastes, product liability, and worker safety. Ethical as well as economic approaches to the law.
EDCI	Education Curriculum and Instruction		
EDCI	2100	Power, Privilege and Public Education	Service learning course. Interdisciplinary analysis of the development and structure of schooling, teaching, and learning in American society; impact of public education on its many and diverse stakeholders. Includes topics such as: equity and excellence, historical, socio-cultural, philosophical, political, and legal frameworks of education, and current educational reform efforts.
EDLR	Educational Leadership		
EDLR	1161	Husky Reads: Introducing Food and Nutrition to Children through Reading	Supervised field work and experiential learning in nutritional literacy for preschoolers and young children, geared to individual, dual, and team activities. Readings and reflections.
EDLR	1162	Health and Education in Urban Communities	Historical and social forces that shape health and education in Connecticut's urban communities. Poverty, culture, and identity; their impacts on children's health, nutrition, schooling, and opportunities for success. Analysis of social policies, norms, and beliefs; their impact on issues of justice. Includes service learning.
ENGR	Engineering		
ENGR	1166	Foundations of Engineering	Introductory topics in a specific engineering major. Topics selected by Department or Program, or Regional Campus faculty. Students to select section based on their selected or intended major. In the context of the discipline, students would develop skills transferable to other engineering disciplines.
ENGR	3209	Sustainable Energy in the 21st Century	Political, socioeconomic, environmental, science, and engineering challenges of energy sources. Comparison of feasibility and sustainability of energy policies around the world.
ENGR	3257	Assessment for Human Rights and Sustainability	Foundational concepts of human rights and environmental impacts pertaining to global supply chains. Regulations and voluntary standards in engineering-intensive sectors, including infrastructure, biofuels, electronics. Case study analysis of corporate assessment practices for labor rights protection and environmental impacts.
ENGR	3315	Manufacturing 4P: People, Planet, Process and Profit	The changes to manufacturing over time, due to increased concerns for the safety of their workers and designs to avoid overuse injuries; environmental concerns to minimize pollution and reduce material use and increase recycling; new fabrication techniques that must be considered and their impact on quality, and the profitability resulting from the interaction of all of these variables. How the four Ps are impacted as the product progresses from design through production.

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ENGL		English	
ENGL	1601W	Race, Gender, and Culture Industry	Cultural construction of race and gender in English-language literature, film, and music.
ENGL	3635	Literature and the Environment	Ecocritical approaches to literary treatment of global environmental issues.
ENVE		Environmental Engineering	
ENVE	1000	Environmental Sustainability	Detailed examination of anthropogenic impacts on the environment, resulting from the need for energy, food and shelter. Subtopics in the broad areas of energy, food, shelter, waste, water, sustainable development will be grounded with case studies of UCONN activities/programs in sustainability. Overarching and linking each topic is the impact of population and water resources with a focus on environmental literacy. Resolution of scientific/technological, public policy and economic aspects of environmental sustainability issues will be explored, including strategies for success, and possible pitfalls, in achieving environmental sustainability in the subtopic areas.
ENVE	2310	Environmental Engineering Fundamentals	Concepts of aqueous chemistry, biology, and physics applied in a quantitative manner to environmental problems and solutions. Mass and energy balances, chemical reaction engineering. Quantitative and fundamental description of water and air pollution problems. Environmental regulations and policy, pollution prevention, risk assessment. Written and oral reports.
ENVE	2320	The Environmental Debate II	Structured review of environmental issues and active debate during class time. Presentation of current <u>environmental issues by environmental professionals and experts.</u>
ENVE	3100	Climate Resilience and Adaptation: Municipal Policy and Planning	An interdisciplinary study of climate change focusing on the local, municipal scale: impacts, policy, vulnerability and adaptation with emphasis on tools such as vulnerability assessments that help local <u>communities determine priorities for adaptation efforts.</u>
ENVE	4310	Environmental Modeling	Systematic approach for analyzing contamination problems. Systems theory and modeling will be used to assess the predominant processes that control the fate and mobility of pollutants in the environment. Assessments of lake eutrophication, conventional pollutants in rivers and estuaries and toxic chemicals <u>in groundwater.</u>
ENVE	4320	Ecological Principles and Engineering	An introduction to ecology and natural treatment systems for managing waste and pollutants with a focus on aqueous contaminants. Topics will include stormwater management, treatment wetlands, restoration ecology, composting, and bioremediation.
ENVS		Environmental Sciences	
ENVS	2000	Integrating Humans and the Environment	Designed for students who have had a foundation in the basic concepts of environmental sciences. Exploration of critical environmental issues from a science-based perspective, including climate change, energy resilience, ecosystem services, and sustainability. The challenges, tradeoffs, and potential solutions to problems related to human modification of the environment, from an <u>interdisciplinary perspective.</u>

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EVST		Environmental Studies	
EVST	1000	Introduction to Environmental Studies	Interdisciplinary survey of relationships between humans and nature; investigation of specific environmental themes and contemporary issues
EVST	3340	Culture and Conservation	Interdisciplinary analysis of conservation and the human-environment relationship from a cross-cultural perspective. Major topics include sustainability, environmental ethics, climate change, natural disasters, health, and environmental justice.
EVST	3412	Global Environmental Politics	Politics of how humans and natural systems interact. Managing the global environment, regulating resource commons, and coordinating to solve environmental problems.
GEOG		Geography	
GEOG	1070	Natural Disasters and Environmental Change	Climate change, global warming, natural hazards, earth surface processes, and the impact these have on populations now and in the past.
GEOG	1300	Climate, Weather, and the Environment	Interactions between weather and climate and the human and natural environment. Emphasis on understanding the linkages between natural processes and societal/environmental issues.
GEOG	1302	GIS Modeling of Environmental Change	An introduction to environmental processes and patterns, especially assessing change in environmental systems using spatial analysis techniques. Students will map field sites using Global Positioning System technology and aerial photographs, collect field data on various environmental systems, and build and test a Geographical Information System-based environmental model.
GEOG	2000	Globalization	Globalization as a complex, multidimensional process. Linkages and interconnectedness between spatial processes and social, cultural, economic, political, and environmental change around the world today. Theory and impacts of economic, social, political, and cultural globalization through case studies at the local, regional, national, and international scales.
GEOG	2100	Economic Geography	Examination of the relationship among economic, cultural, and geographic processes which affect the patterns, structure, and growth or decline of economic activities. The global extent of the agricultural, manufacturing, and service sectors is presented with particular emphasis on the interdependency of non-western and western economies.
GEOG	2320	Climate Change: Current Geographic Issues	Introduction to the science, impacts, and politics of climate change from a geographic perspective. Examination of physical mechanisms, extreme weather events, impacts on water, food and energy systems, impacts on polar regions, energy strategies and solutions, policy and negotiations, and mitigation and adaptation strategies.
GEOG	2400	Introduction to Sustainable Cities	Pathways to make cities more sustainable from social, economic, and environmental perspectives. Topics include sustainable transportation, renewable energy, recycling of waste, and green infrastructure in contemporary metropolitan areas in developed and developing nations.

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GEOG	3100	The Geography of Economic Development	Analysis of processes and patterns of economic organization and spatial change at the international, national and intra-national scales. Examines development from both linear (neo-classical) and structuralist (political economy) perspectives, and emphasizes relationships between advanced and developing economies within the context of the global economy.
GEOG	3220	Race and Food	Analysis of the relationship between race, geography and food/agriculture through the lens of African Americans. Topics include food and the African Diaspora, the effects of slavery on food and agriculture, migration and the spread of food traditions and growing practices, community food security, and whiteness in the alternative food movement.
GEOG	3320W	Environmental Evaluation and Assessment	Concepts and methods of environmental analysis in contemporary geography. Emphasis on the ecological impact of human activities and on the evaluation and assessment of existing and future environments.
GEOG	3330W	Environmental Restoration	Restoration of natural environments including rivers, wetlands, coastal areas, grasslands and forests. Theoretical discussions of restoration ecology, management and engineering concerns. History of environmental restoration; relevant policy debates; specific case studies of river, wetland, coastal, grassland, and forest restoration.
GEOG	3340	Environmental Planning and Management	The basic elements of the conflict between human environments and natural systems are considered, along with the methods of analysis and resolution of problems caused by that conflict. Emphasis on public policy related to environmental issues. A fee of \$10 is charged for this course.
GEOG	3350	Global Change, Local Action: A Geography of Environmentalism	How global-local linkages of geographic scope and scale impact human-environment interactions.
GEOG	3400	Climate and Weather	Analysis of atmospheric processes giving rise to weather systems and climate patterns. The dynamic integration of atmospheric systems is emphasized.
GEOG	3410	Human Modifications of Natural Environments	A geographical and historical interpretation of the changing relationships between culture and environment. Emphasis on the modification of the biophysical environment by preagricultural, agricultural and urban societies in Europe, southwest Asia, and North America.
GEOG	3700	The American Landscape	Survey and analysis of contemporary U.S. and Canadian landscapes, including consideration of the environmental, social, political, and economic forces that generate them.
GSCI	Geoscience		
GSCI	1010	Dinosaurs, Extinctions, and Environmental Catastrophes	A reconstruction of the Mesozoic world of the dinosaurs based on paleontological and geological evidence. Past and present environmental catastrophes leading to mass extinctions and changes in biodiversity. Fundamental concepts of geology, stratigraphy, historical geology, and paleoclimatology.
GSCI	1050	Earth's Dynamic Environment	Origin and history of planet Earth, emphasizing how rock, air, water, and life interact at different scales to produce the earth's crust, landforms, life systems, natural resources, catastrophes, and climatic regimes. Provides a scientific context for human-induced global change. A fee of \$10 is charged for this course.

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GSCI	1051	Earth's Dynamic Environment (Lecture)	Origin and history of planet Earth, emphasizing how rock, air, water, and life interact at different scales to produce the earth's crust, landforms, life systems, natural resources, catastrophes, and climatic regimes. Provides a scientific context for human-induced global change.
GSCI	1052	Earth's Dynamic Environment (Laboratory)	Laboratory complement to GSCI 1010, 1051, 1055, or 1070. Provides an opportunity to work with specimens (minerals, fossils, rocks), terrain images, maps, physical models, and simulation experiments. Includes local field trips. A fee of \$10 is charged for this course.
GSCI	1053	Discussion Earth and Life through Time	Faculty-taught, weekly discussions to enhance GSCI 1050 and 1051. Emphasis and approach will vary, but all sections will track the lecture syllabus.
GSCI	1054	Field Trips Earth and Life through Time	Two or more faculty-led weekend field trips to nearby sites of interest, designed to enhance GSCI 1050 and 1051.
GSCI	1070	Natural Disasters and Environmental Change	Climate change, global warming, natural hazards, earth surface processes, and the impact these have on populations now and in the past.
GERM	German		
GERM	1175	Human Rights and German Culture	Study of philosophical discourse on human rights from the Enlightenment to the present and analysis of related ethical problems in conjunction with an examination of relevant literary texts, film, and other art forms. Germany's role in the development of international human rights instruments.
GERM	2400	The Environment in German Culture	Ecological thinking in German culture from the Greeks (Plato) to the Greens (Amery). The second half of the semester consists of student projects on current environmental policies in the European Union.
HCMI	Healthcare Management and Insurance Studies		
HCMI	4225	Health and Social Insurance	Addresses various business practices associated with providing private health insurance such as underwriting, medical claims cost control, pricing, and marketing. In that context, managed care techniques and benefit package designs including consumer directed health plans, and value-based insurance design, are discussed. Attention is also paid to design and functioning of various social insurance programs such as Medicare, Medicaid, unemployment compensation, disability insurance, workers compensation, and Social Security.
HCMI	4243	Health Law and Policy	Introduction to the United States legal system as it relates to health care, public health and ethics. Sessions represent important applications of law to health including the powers of the state governments; privacy and confidentiality in health care; the right to privacy; the right to refuse treatment and end of life issues; hospital, physician and managed care liability; the Americans with Disabilities Act; and public health policy and advocacy. This course is structured to encourage lively and interesting in-class discussions of legal and ethical principles as they relate to the health care system.

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HIST	History		
HIST	3202	International Human Rights	Historical and theoretical survey of the evolution of human rights since 1945.
HIST	3204W	Science and Social Issues in the Modern World	Social context of science in the United States and Europe since 1850. Genetics and eugenics; ecology and the environment; nuclear issues; gender, race, and science.
HIST	3540	American Environmental History	Transformations of the North American environment: the effects of human practices and policies, varying ideas about nature across cultures and time periods; and the rise of environmental movements.
HIST	3542	New England Environmental History	Interdisciplinary history of New England's terrestrial and marine environmental change. Links among land, sea, and human natural resource use and management, including precontact patterns, colonial impacts, agricultural decline, industrial pollution, overfishing, re-forestation, and the rise of eco-tourism.
HIST	3575	Latinos/as and Human Rights	Latino/a issues related to human, civil and cultural rights, and gender differences.
HDFS	Human Development and Family Studies		
HDFS	3342	Family Resource Management	Decision-making process of families concerning the utilization of financial, personal, environmental and social resources.
HRTS	Human Rights		
HRTS	1007	Introduction to Human Rights	Exploration of central human rights institutions, selected human rights themes and political controversies, and key political challenges of contemporary human rights advocacy.
HRTS	2170W	Bioethics and Human Rights in Cross-Cultural Perspective	Philosophical examination of the ethical and human rights implications of recent advances in the life and biomedical sciences from multiple religious and cultural perspectives.
HRTS	3153W	Human Rights in Democratizing Countries	Human rights, political violence, political and legal anthropology, prosecutions of human rights offenders, truth and memory, reconciliation, international justice.
HRTS	3200	International Human Rights Law	International and regional human rights law, institutions, and regimes; specialized topics include corporate social responsibility, women's human rights, truth commissions, humanitarian intervention, international criminal law, monitoring, and compliance.
HRTS	3202	International Human Rights	Historical and theoretical survey of the evolution of human rights since 1945.
HRTS	3209	Sustainable Energy in the 21st Century	Political, socioeconomic, environmental, science and engineering challenges of energy sources; comparison of feasibility and sustainability of energy policies around the world.
HRTS	3212	Comparative Perspectives on Human Rights	Cultural difference and human rights in areas of legal equality, women's rights, political violence, criminal justice, religious pluralism, global security, and race relations.
HRTS	3219	Topics in Philosophy and Human Rights	What are human rights? Why are they important? Topics may include the philosophical precursors of human rights, the nature and justification of human rights, or contemporary issues bearing on human rights.
HRTS	3220	Philosophical Foundations of Human Rights	Ontology and epistemology of human rights investigated through contemporary and/or historical texts.
HRTS	3221	Latinos/as and Human Rights	Latino/a issues related to human, civil and cultural rights, and gender differences.

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HRTS	3250	Human Rights and New Technologies	The role of new technologies in the fulfillment, protection, and enforcement of human rights; technology-related human rights benefits and risks, including privacy, security, and equality; technical and legal innovations for balancing benefits and risks.
HRTS	3257	Assessment for Human Rights and Sustainability	Foundational concepts of human rights and environmental impacts pertaining to global supply chains. Regulations and voluntary standards in engineering-intensive sectors, including infrastructure, biofuels, electronics. Case study analysis of corporate assessment practices for labor rights protection and environmental impacts.
HRTS	3326	Global Health and Human Rights	Theories, methods and controversies in the interconnected fields of global health and human rights.
HRTS	3430	Evaluating Human Rights Practices of Countries	Examination of the ways in which governments, businesses, NGOs, IGOs, and scholars assess which human rights are being respected by governments of the world. Hands-on experience in rating the level of government respect for human rights in countries around the world.
HRTS	3445	Economic Foundations of Gender Inequality	Economic approaches to gender inequality in political representation, economic opportunities, access to education, and health.
HRTS	3475	Economic Development and Human Rights	Microeconomics of economic development and human rights. Impacts of human capital, health, education, on well-being and poverty.
HRTS	3575	Human Rights and Visual Culture	The problematics of visual representation and media in defining, documenting and visualizing human rights and humanitarianism from the 19th century birth of photography to 21st century social media.
HRTS	3619	Topics in Literature and Human Rights	Study of literature from various historical periods and nationalities concerned with defining, exploring, and critiquing the idea of universal human rights.
HRTS	3831	Human Rights in the United States	Sociological analyses of human rights issues in the United States, including economic, racial, and gender justice; prisoner's rights and capital punishment; the role of the United States in international human rights agreements and treaties; and struggles on behalf of human rights.
HRTS	3837	Sociology of Global Human Rights	Comparative approach to the study of human rights in the United States and elsewhere around the world from a sociological perspective.
HRTS	4291	Service Learning Seminar/Internship	Combination of internship work within the larger human rights community with regular classroom meetings for reflection/analysis on the application of human rights concepts and practices. Includes the production of a written/media portfolio of semester's work.
JOUR	Journalism		
JOUR	3046	Environmental Journalism	Explores specialized coverage of environmental issues by journalists, emphasizing news reporting with the opportunity to produce print, visual and multimedia news reports.
LAND	Landscape Architecture		
LAND	2210	The Common (Shared) Landscape of the USA: Rights, Responsibilities and Values	An introduction to the study of vernacular landscapes in the USA with an emphasis on the relationship between societal values and land use patterns.

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LAND	3230W	Environmental Planning and Landscape Design	Theories, concepts and methods for sustainable design of the land to balance the needs for conservation and development. Topics include land use planning, ecological design, and cultural and natural landscape assessment at a variety of scales and settings.
LLAS	Latino and Latin American Studies		
LLAS	3221	Latinos/as and Human Rights	Latino/a issues related to human, civil and cultural rights, and gender differences.
LLAS	3271	Immigration and Transborder Politics	U.S. immigration policy, trans-border politics, and the impact diasporas and ethnic lobbies have on U.S. foreign policy, with the emphasis on Latino diasporas.
LLAS	3660W	History of Migration in Las Americas	Applies broad chronological and spatial analyses of origins of migration in the Americas to the experiences of people of Latin American origin in Connecticut. Addresses a range of topics from the initial settlement of the Americas to 21st century migrations.
LING	Linguistics		
LING	1020	Language and Environment	Effects of geography, society, and politics, on language use and variation (sociolinguistics). The geographical spread, growth and death of languages (language ecology).
MARN	Marine Sciences		
MARN	1001	The Sea Around Us	The relationship of humans with the marine environment. Exploitation of marine resources, development and use of the coastal zone, and the impact of technology and pollution on marine ecosystems.
MARN	3000	The Hydrosphere and Global Climate	Interactions of the physical and chemical components of the global water and energy cycles and how all apply to climate. The science behind climate change predictions reviewed and applied to case studies.
MARN	3003Q	Environmental Reaction and Transport	An introduction to the chemical/biological reactions and transport dynamics of environmental systems. Mass balances, elementary fluid mechanics and the coupled dynamics of lakes, rivers, oceans, groundwater and the atmosphere as biogeochemical systems.
MARN	3014	Marine Biology	The study of the kinds and distributions of marine organisms. Particular attention is paid to biotic features of the oceans, organism-habitat and relationships and general ecological concepts influencing marine populations and communities.
MARN	3017	Plankton Ecology	Ecology of planktonic organisms (bacteria, protista and metazoa). The evolutionary ecology concept, methods of research, special features of aquatic habitats; adaptations to aquatic environments; population biology; predation, competition, life histories, community structure, and role of plankton in ecosystem metabolism.
MARN	3030	Coastal Pollution and Bioremediation	Overview of processes and compounds leading to pollution in the nearshore marine environment. The impact of pollution on the marine food web and its response is emphasized. Alleviation of pollution through metabolism of organisms, including bacteria, seagrasses, and salt marshes.
MARN	3801W	Marine Sciences and Society	Scientific analysis of coastal zone issues and their implications for society. Written analysis and discussion of primary literature.

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MARN	3811	Seminar on Marine Mammals	Instructors from different areas of expertise discuss the natural history, evolution, anatomy, physiology, husbandry, and conservation of marine mammals. Current research is emphasized.
MARN	4002	Science and Coastal Environment	Specific cases of multiple impacts on environmental resources and coastal habitats. Current scientific understanding as a basis for sociopolitical decision-making (e.g., land-use impacts on coastal processes in relation to zoning regulation and water-quality criteria).
MARN	4018	Ecology of Fishes	General concepts in fish ecology such as distribution, feeding, bioenergetics, growth, larval fish ecology, biotic interactions, life history evolution and other contemporary research topics.
MARN	4066	River Influences on the Marine Environment	Influences of rivers on estuaries, coastal and open water properties, energy budgets and ecosystems including inputs of buoyant waters, sediments and pollutants and variability from storms, seasons, human alterations and climate change.
MAST	Maritime Studies		
MAST	3544	Atlantic Voyages	Seafaring and society since the age of Columbus.
MAST	3832	Maritime Law	International and domestic legal concepts concerning jurisdiction in a maritime setting.
MSE	Materials Science and Engineering		
MSE	4801	Materials for Alternative, Renewable Energy	Overview of energy conversion and storage systems – centralized and distributed generation to stationary and motive batteries; efficiency calculation and thermodynamics; electrochemistry – primary and secondary batteries; fuels – chemistry, processing, impurities; combustion, gasification and electrochemical systems; materials requirements; bulk and surface properties; metals, ceramics and superalloys; gas-metal interactions; gas – liquid – metal interactions; development trend – alloying principles, coatings, claddings; alloy processing and coating techniques.
ME	Mechanical Engineering		
ME	3239	Combustion for Energy Conversion	Introduction to combustion processes and chemical kinetics. Mechanism of the formation of pollutants such as nitrogen oxides, carbon monoxide, soot, and unburned hydrocarbons in stationary and vehicular power plants.
ME	3264	Applied Measurements Laboratory	Application of fundamental measurement techniques developed in ME 3263 to various mechanical systems and processes. Hands-on laboratory experiences include measurements in energy conversion, solid mechanics, dynamics, and fluid and thermal sciences, as well as statistical methods to analysis of experimental data.
ME	3270	Fuel Cells	Advanced course on fuel cells as an alternative energy conversion technology. Subjects covered include: thermodynamics and electrochemistry of fuel cells, operating principles, types of fuel cells, overview of intermediate/high temperature fuel cells, polymer electrolyte fuel cells and direct methanol fuel cells.

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ME	3285	Sustainable Energy Sources and Systems	Topics include current energy sources and usage, environmental pollution from use of fossil fuels, nuclear energy, biomass energy, geothermal energy resources and usage, hydroelectric, solar, wind and tidal energy conversion principles, hydrogen generation and usage in electrochemical devices, energy economics and effects of energy pricing on economically viable energy options.
MUSI	Music		
MUSI	1003	Popular Music and Diversity in American Society	An introduction to popular music and diversity in America: jazz, blues, Top-40 pop, rock, hip-hop and other genres. Musicians and their music studied in the context of twentieth-century and contemporary American society, emphasizing issues of race, gender, class, and resistance.
MUSI	1005	Honors Core: Music and Nature, Music and the Environment	An exploration of how 1) musicians have drawn upon nature as a source of inspiration, and 2) music has been used, in the recent past and continuing today, to call attention to the dangers facing the environment.
MUSI	1006	Earthtones: Vocal Ensemble	World music vocal ensemble that brings to life the songs of specific cultures as a means to gain knowledge and understanding of communities, culture, spirituality and social justice. A fee of \$25 is charged for this course.
NRE	Natural Resources and the Environment		
NRE	1000	Environmental Science	An introduction to basic concepts and areas of environmental concern and how these problems can be effectively addressed. Topics include human population; ecological principles; conservation of biological resources; biodiversity; croplands, rangelands, forestlands, soil and water conservation; pollution and water management; and wildlife and fisheries conservation.
NRE	1235	Environmental Conservation	Overview of the history of natural resource use and environmental conservation policy development from prehistoric to present times. Examination of the emergence of the 20th century conservation movement in North America and the transition to the environmental movement is used to highlight recurring environmental issue themes such as: private ownership vs. public trust doctrine; commercial trade in natural resources; development vs. protection; sustainability; and the role of society and governments in regulation. Through selected readings and case studies, students are challenged to begin development of their personal ethics regarding the development, conservation and protection of the environment.
NRE	2215	Introduction to Water Resources	Introduction to surface and ground water resource assessment, development and management. Integration of scientific, legal, environmental and human factors that enter into developing and maintaining sustainable water resources. Examines current and future plight of water shortages and water quality issues here and abroad.
NRE	2455	Forest Ecology	Forest structure and functional processes and their relation to physical environment (light, temperature, water, soil); the influence of time (succession, disturbance, stand dynamics) and space (landscape ecology, ecosystem management). Laboratory will be in the field or computer lab.

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NRE	2600	Global Sustainable Natural Resources	Sustainable management of natural resources across cultural, political, and ecological boundaries. Topics include marine and freshwaters, forests, food production and urban development.
NRE	3105	Wetlands Biology and Conservation	Principal wetland habitats of North America are surveyed, and the relationship of wildlife associations to biological and physical features of wetlands is reviewed. Emphasis is placed on issues relating to wetlands conservation and management.
NRE	3115	Air Pollution	The meteorology, effects and controls of air pollution.
NRE	3146	Climatology	Fundamentals of climatology: elements, processes, and mechanisms that govern or affect the climate and climate change, climatological theories and observations, climate across spatial and temporal scales, scientific methods for climatic analysis and applications.
NRE	3201	Conservation Law Enforcement	Basic pre-professional course for majors in natural resource conservation and related disciplines. Recommended for persons considering a career in wildlife, fisheries, law enforcement, or other natural resource conservation and management disciplines.
NRE	3205	Stream Ecology	A broad overview of stream ecology will be presented. Emphasis will be placed on types of lotic habitats and the diversity and community patterns of organisms which inhabit them. Adaptations to life in running water and energy flow in stream ecosystems will also be discussed. Efforts targeted at the conservation of streams will be integrated throughout the semester. One or more field trips required.
NRE	3245	Environmental Law	An overview of environmental law including the common law principles of nuisance, negligence, and trespass. Students will become acquainted with legal research techniques; emphasis will be on federal, state, and municipal programs addressing clear air, clean water, hazardous waste, inland wetlands, coastal zone management, and prime agricultural farm land and aquifer protection.
NRE	3265	Sustainable Urban Ecosystems	Natural resources in urban systems from the perspectives of natural science and social science. Managing ecosystems in and in relation to urban environments.
NRE	3305	African Field Ecology and Renewable Resources Management	An intensive, field oriented methods course conducted primarily in South Africa at the Basil Kent Field Station, Great Fish River Reserve in collaboration with the University of Fort Hare. An introduction to South African culture and history, ecology, and natural resources is provided in weekly meetings during the semester. This is followed by approximately three weeks in the field in South Africa (a required part of the course). Topics covered include vegetation and faunal surveys, data collection and analysis, biodiversity monitoring, and conservation management, and other selected themes.
NRE	3500	Exurban Silviculture	Application of ecological principles in controlling forest establishment, composition, health and growth. Study of cultural treatments that maintain and enhance desired benefits from the forest on a sustainable basis, with an emphasis on the diverse needs and values of landowners and society within the exurban forest.
NRE	3674	Introduction to Environmental and Natural Resources of China	Basics about the environmental and natural resources of China, including geography, climate, agriculture, history and culture.

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NRE	3675	Environmental and Natural Resources of China	Introduction to the environment of China, focusing on the management and sustainability of natural resources and environmental systems. A field trip to China is required.
NRE	4000W	Natural Resources Planning and Management	Concepts and methods of planning for the allocation, management, and utilization of terrestrial and aquatic ecosystems. Techniques and methods of managerial decision making. Written technical reports required.
NRE	4165	Soil and Water Management and Engineering	Floodplain management, erosion and erosion control, reservoir management, storm water control, watershed management, and on-site sewage treatment systems. Written technical reports, use of spreadsheets and field work required. Some field trips required.
NRE	4170	Climate-Human-Ecosystem Interactions	Understanding pathways of interactions among climate change, ecological processes, and human activities through time are studied. Feedbacks that either reinforce or limit such interactions will also be discussed.
NRE	4340	Ecotoxicology	Understanding the fate and effects of environmental contaminants. Major classes of contaminants and their sources, uptake, biotransformation, elimination, bioaccumulation, biomagnification and toxicological effects in organisms will be covered. Discussions are focused around case studies, readings, and class presentations that further explore toxicant exposures and responses in ecosystems.
NRE	4475	Forest Management	Application of forest mensuration, ecology, and silviculture in sustainable forest management. Field trips required.
NRE	4601	Current Topics in Environmental and Natural Resources - Honors	An exploration of a diverse set of environmental and natural resource topics that will be examined using a continuum of applied-to-theoretical approaches. Each week, readings will introduce and familiarize students with a guest lecturer's research and allow students to engage in an in-depth discussion with each lecturer prior to attending their seminar. Honors students will meet for an hour after each seminar and will include student-led discussion and presentations on the seminar research topic.
NUSC	Nutritional Sciences		
NUSC	1161	Husky Reads: Introducing Food and Nutrition to Children through Reading	Supervised field work and experiential learning in nutritional literacy for preschoolers and young children, geared to individual, dual, and team activities. Readings and reflections.
NUSC	1167	Food, Culture, and Society	Social, cultural, and economic factors affecting food intake and nutritional status. Includes contemporary topics such as world food problems, hunger in the United States, dieting and eating disorders, health foods and vegetarianism.
NUSC	3180	Experience in Community Nutrition	Supervised field work with community nutrition education or problem-solving. Readings and reports.
NUSC	3230	Community Nutrition	Role of community structure, agencies, and resources in community health relating to nutrition.
PHRX	Pharmacy		
PHRX	4054	Urban Service Track	An interprofessional program designed to develop future health professionals dedicated to caring for urban underserved populations and working in interprofessional teams.

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PHRX	5167	Urban Service Track	The Urban Service Track (UST) scholar program is an innovative educational program that provides health professions students with the opportunity to gain valuable skills and experiences in the care of urban, underserved patients, while working and learning together. UST Scholars collaborate in all activities as inter-professional teams composed of students from the UConn Schools of Pharmacy, Dental Medicine, Medicine and Nursing and the Connecticut Area Health Education Center (AHEC) program. UST Pharmacy Scholars focus on teaching both patients and other health profession students regarding their role on the health care team.
PHIL	Philosophy		
PHIL	1107	Philosophy and Gender	Topics concern social ethics and gender, such as gender equality and the impact of gender norms on individual freedom. Specific topics are examined in light of the intersections between gender and race, ethnicity, class, and sexual orientation
PHIL	2170W	Bioethics in Human Rights in Cross-Cultural Perspective	Philosophical examination of the ethical and human rights implications of recent advances in the life and biomedical sciences from multiple religious and cultural perspectives.
PHIL	3216	Environmental Ethics	Inquiry into obligations to, or concerning, the environment, particularly the moral standing of animals, species, ecosystems, and natural objects.
PHIL	3219	Topics in Philosophy and Human Rights	What are human rights? Why are they important? Topics may include the philosophical precursors of human rights, the nature and justification of human rights, or contemporary issues bearing on human rights.
PHIL	3220	Philosophical Foundations of Human Rights	Ontology and epistemology of human rights investigated through contemporary and/or historical texts.
PHYS	Physics		
PHYS	1030Q	Physics of the Environment	Concepts of physics applied to current problems of the physical environment: energy, transportation, pollution.
PHYS	1035Q	Physics of the Environment with Laboratory	Concepts of physics applied to the physical environment, particularly to current problems related to energy, transportation, and pollution. These relationships will be further explored in the laboratory section.
POLS	Political Science		
POLS	3203	Environmental Policy and Institutions	Development of environmental policies and institutions and their effects on the motivations and the actions of individuals and groups with implications for questions of equity, justice, and sustainability. Draws on approaches from comparative politics, public policy, and international relations.
POLS	3209	Sustainable Energy in the 21st Century	Political, socioeconomic, environmental, science and engineering challenges of energy sources; comparison of feasibility and sustainability of energy policies around the world.
POLS	3212	Comparative Perspectives on Human Rights	Cultural difference and human rights in areas of legal equality, women's rights, political violence, criminal justice, religious pluralism, global security, and race relations.

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POLS	3216	Women in Political Development	How women and gender circumscribe political life and generate relationships of inequality and justice on a global scale. Topics may include conflict and security, development, human rights and legal systems, labor and migration, nation building, political economy, and transnational justice.
POLS	3218	Indigenous Peoples' Politics and Rights	Governments, political behavior, human rights and constitutional rights of indigenous peoples of North America and Latin America. Impact of international law and globalization on indigenous peoples.
POLS	3239	Politics of the Environment and Development	Politics of the environment and development with a focus on environmental issues in developing countries.
POLS	3412	Global Environmental Politics	Politics of how humans and natural systems interact. Managing the global environment, regulating resource commons, and coordinating to solve environmental problems.
POLS	3430	Evaluating Human Rights Practices of Countries	Examination of the ways in which governments, businesses, NGOs, IGOs, and scholars assess which human rights are being respected by governments of the world. Hands-on experience in rating the level of government respect for human rights in countries around the world.
POLS	3672	Women and Politics	An introduction to feminist thought, the study of women as political actors, the feminist movement and several public policy issues affecting women.
POLS	3837	Civil Rights and Legal Mobilization	Strategies used by interest groups to achieve civil rights recognition through the legal system and legislative process.
PSYC	Psychological Sciences		
PSYC	3104	Environmental Psychology	Reciprocal relationships between built and natural environments and human behavior.
PUBH	Public Health		
PUBH	1001	Introduction to Public Health	Basic foundation in public health principles and practices.
PUBH	3001	Introduction to Epidemiology	Provides overview of epidemiological concepts and methods for examining the distribution and causes
PP	Public Policy		
PP	3203	Environmental Policy and Institutions	Development of environmental policies and institutions and their effects on the motivations and the actions of individuals and groups with implications for questions of equity, justice, and sustainability. Draws on approaches from comparative politics, public policy, and international relations.
SOCI	Sociology		
SOCI	1001	Introduction to Sociology	Modern society and its social organization, institutions, communities, groups, and social roles: the socialization of individuals, family, gender, race and ethnicity, religion, social class, crime and deviance, population, cities, political economy, and social change.

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SOCI	1251	Social Problems	Major social problems, their sources in the organization of society, public policies for their alleviation, and questions of ethics and social justice: alcohol and drug abuse, physical and mental illness, sexual variances, poverty and inequality, ethnic and racial prejudice and discrimination, women and gender, the changing family, violence, crime and delinquency, the environment, urban problems, and <u>population planning and growth.</u>
SOCI	1501	Race, Class, and Gender	Race, class, and gender, as they structure identities, opportunities, and social outcomes
SOCI	2701	Sustainable Societies	Sociological perspectives on the concepts of sustainability, focusing on issues of climate change mitigation and adaptation, including questions of social transitions based on concepts of social justice, <u>biomimicry, permaculture, and the future of life on earth.</u>
SOCI	2705	Sociology of Food	Social factors shaping the industrial food system, as well as a social analysis of viable alternatives.
SOCI	2709W	Society and Climate Change	Sociological perspectives on the social, economic, political, and environmental causes and <u>consequences of anthropogenic global climate change.</u>
SOCI	3407	Energy, Environment, and Society	Sociological perspectives on energy production, distribution and consumption, environment and social <u>organization.</u>
SOCI	3701	The Developing World	Social and economic conditions in Asia, Africa, and Latin America and attempts to improve them.
SOCI	3821	Social Movements and Social Change	Revolutionary, reform, reactionary, religious, communal, and escapist movements.
SOCI	3831	Human Rights in the United States	Sociological analyses of human rights issues in the United States, including economic, racial, and gender justice; prisoner's rights and capital punishment; the role of the United States in international human rights agreements and treaties; and struggles on behalf of human rights.
SOCI	3837	Sociology of Global Human RIghts	Comparative approach to the study of human rights in the United States and elsewhere around the <u>world from a sociological perspective.</u>
SOCI	3971	Population	Size, growth, composition and distribution of population; social factors in population change.
SPSS	Sustainable Plant and Soil Systems		
SPSS	1110	Fundamentals of Horticulture	Science and practice of horticultural plant propagation and culture. Basic concepts of plant structure, growth and function. Integrated pest management. Impact of new technology. Horticulture and the <u>environment.</u>
SPSS	1120	Introduction to Plant Science	Basic concepts of plant anatomy and physiology in production of agricultural and horticultural crops. Developmental stages of crop plants from seed through vegetative growth and flowering to harvest. Included topics are mineral nutrition, water relations, photosynthesis, respiration, reproduction, tropisms, climate effects, and breeding and development of improved crop plants. Relationships between the physiology of plants and crop production practices.

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SPSS	1125	Insects, Food and Culture	Introduction to the fascinating world of insects and their ubiquitous interactions with people. Role of insects in food and fiber production; insects as food; impact of insects on human health, commerce and history; and insects as inspiration sources for art, music, film and literature around the world.
SPSS	1150	Agricultural Technology and Society	Development of agricultural systems and technologies and their influence on societies. Topics include plant and animal domestication, food and industrial crops and centers of production, environmental issues, and agricultural ethics.
SPSS	2100	Environmental Sustainability of Food Production in Developed Countries	Foundations of modern systems that produce the majority of food calories consumed in North America and other developed countries. Benefits and environmental risks associated with modern food production systems. Alternative food production systems and sustainability. Local food production and food security. Food production and climate change.
SPSS	2110W	Sustainable Plant Pest Management Communication	Communication of the impacts, economic importance, identification, and sustainable management of new and emerging plant pests, such as insects, mites, weeds/invasive plants, and diseases of food and non-food (ornamental) crops, in agricultural and landscape settings. Connections with UConn Extension and real-world pest occurrences will be incorporated.
SPSS	2120	Environmental Soil Science	Introduction to the physical, chemical and biological properties of soils. The relationship between soils and the growth of higher plants. Impact of soils on environmental quality.
SPSS	2500	Principles and Concepts of Agroecology	Application of ecological processes to modern agricultural production practices. Crops and their environment. Soil quality and maintenance of soil productivity. Sustainability of agroecosystems.
SPSS	3094	Seminar in U.S. Food Production Systems	Discussion of the complex issues surrounding the economic, agronomic, and environmental performance of food production systems in the United States.
SPSS	3150	Advanced Turfgrass Management	Effects of environmental stresses and turfgrass management practices on growth, development, and physiology of turfgrasses. Implementation of proper management practices to promote optimal turfgrass health under stress conditions.
SPSS	3230	Biotechnology - Science, Application, Impact, Perception	Scientific, legal, and ethical aspects of Biotechnology application in agriculture, health medicine, forensics, and the environment. Designed for students with diverse departmental affiliations.
SPSS	3240	Plant Biotechnology	Principles of recombinant DNA and plant gene transfer technologies. Applications of plant biotechnology in agriculture, horticulture, forestry, human/animal health care, and pharmaceutical industry. Social and environmental impacts of plant biotechnology.
SPSS	3245	Plant Breeding and Biotechnology	Principles and applications, economic, social and environmental impacts, advantages, potentials and limitations of major traditional and modern plant breeding technologies including crossing/hybridization, mutagenesis, genetic engineering and genome editing.

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SPSS	3550	Urban Plant Systems Construction and Maintenance	Structural and functional components of plant systems. Provision of ecosystem services. Overviews of a wide spectrum of planted systems including streetscaping, green roofs and green walls, rain gardens and bioretention, and phytoremediation systems. Techniques of soil modification. Plant selection. Establishment and maintenance of woody and herbaceous plants: planting, preservation, pruning, <u>mulching, irrigation, and fertilization.</u>
SPSS	3610	Organic and Sustainable Vegetable Production	Fundamentals of soil management and crop plant husbandry as applied to vegetable production. Horticultural principles of crop growth. Focus is on sustainable and organic practices. Field laboratory will consist of required trips (some outside designated laboratory time) during the early part of the <u>semester to organic and conventional farms.</u>
URBN	Urban and Community Studies		
URBN	1300	Exploring Your Community	Various aspects of urban and community life emphasizing the interplay of social justice, diversity, individual and social well-being. Theories, concepts, and methods in community studies. May contain a service learning component.
WGSS	Women's, Gender, and Sexuality Studies		
WGSS	2105	Gender and Science	The historical, sociological, economic, and political processes that shape the ways that gender, race, <u>class, sexuality and nation intersect with science, medicine and technology.</u>
WGSS	2124	Gender and Globalization	Construction and reproduction of gender inequality and the gendered nature of global structures and processes. Key topics include women's rights as human rights; women's work; gender, development, and the global economy; migration; religious fundamentalism; reproduction, health, and HIV/AIDS; education; violence against women; and gender, war, and peace advocacy.
WGSS	3052	Women and Politics	An introduction to feminist thought, the study of women as political actors, the feminist movement and <u>several public policy issues affecting women.</u>
WGSS	3216	Women in Political Development	How women and gender circumscribe political life and generate relationships of inequality and justice on a global scale. Topics may include conflict and security, development, human rights and legal systems, labor and migration, nation building, political economy, and transnational justice.
WGSS	3269	Women's Movements	Examination of women's movements as related to intersections of gender, race, class, nationality, and sexuality, and to topics such as democracy, economic justice, the environment, health, and sexual <u>freedom.</u>
WGSS	3350	Anthropological Perspectives on Women	Major conceptual and historical problems in the study of gender in anthropology. Women's roles in different historical and contemporary settings and new understandings of family, kinship, power, and <u>cultural ideologies.</u>
WGSS	3445	Economic Foundations of Gender Inequality	Economic approaches to gender inequality in political representation, economic opportunities, access to education, and health.

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Graduate Courses Focused on Sustainability			
Department	Course Number	Course Name	Description
AH	Allied Health		
AH	5331	Nutrition for Healthy Communities	Development of knowledge and skills in public nutrition including community assessment, development of program policies, and program planning, implementation, and evaluation.
AH	5366	Environmental Health	Focuses on the environmental health consequences of exposure to toxic chemicals, food contaminants and radiation. Basic principles of environmental health are discussed, followed by lectures on specific topics such as: cancer and reproductive risks, occupational hazards, radiation, genetic biomonitoring, risk assessment techniques, risk/benefit analysis, social/legal aspects of regulating toxic chemicals, and other related topics.
AH	5503	Poverty and Public Health	Social determinants of health and poverty. Health impact assessments. Improving the social determinants of health and poverty, including countries in conflict.
AH	5504	Nutrition During Human Emergencies	The course examines the cycle of malnutrition and disease, and major food and nutrition challenges faced by refugee and displaced populations. It covers types of feeding and nutrition supplementation programs in emergencies, and nutritional assessment as a tool to design, target and evaluate feeding and supplementation programs in emergencies. The course addresses feeding of special populations such as: infants, pregnant and lactating women, and the elderly during emergencies; international agencies, non-government organizations, and government programs involved with food aid and relief; and food as a human right.
AH	5505	Principles of Sustainability	This course will provide students with an understanding of the basic principles of environmental,
ANTH	Anthropology		
ANTH	5306	Human Behavioral Ecology	This seminar will apply the theory of natural selection to the study of human behavior in an ecological setting, with particular focus on the adaptive features and biological design of human behavior.
ANTH	5377	Global Health and Anthropology	Assessing global morbidity and mortality; global health governance; political economy of global health; health inequities; social determinants of health; syndemics; climate change and health; maternal and child health; nutrition; infectious diseases; and war, trauma, and complex emergencies.
ANTH	5390	Cultural Rights	Politics of culture and cultural rights, minority rights, indigenous rights, multicultural policies, race, difference and law, cosmopolitanism, globalization and human rights.
ANTH	5391	Human Rights in a Diverse World	Basic issues, methods and theories in the anthropological study of human rights; cultural relativism, the international human rights system, social movements, transnational activist networks, media and representation are studied in their relationship to rights claims, adjudication, and outcomes.

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ANTH	5392	Human Rights in a Diverse World	Basic issues, methods and theories in the anthropological study of human rights; cultural relativism, the international human rights system, social movements, transnational activist networks, media and representation are studied in their relationship to rights claims, adjudication, and outcomes.
ARE	Agricultural and Resource Economics		
ARE	5150	Microeconomic Foundations for Sustainability	Theory and tools of microeconomic foundations for sustainable development. Intermediate understanding of applied microeconomics and practicing quantitative techniques for application to economic issues using electronic spread sheets.
ARE	5201	Microeconomics	Beginning graduate microeconomics covering consumer and producer theory, price determination,
ARE	5211	Quantitative Analysis for Sustainable Development	Quantitative methods used in the analysis of problems related to sustainable economic development with a focus on agriculture, natural resources, and the environment. Regression analysis, economic impact analysis, feasibility studies, enterprise budgets, and survey methods.
ARE	5215	Sustainable Business Management	Principles of management strategy with a focus in agribusiness. Marketing, financial and human resource management as well as budgeting techniques and the legal and organizational structure of businesses from the perspective of sustainability.
ARE	5305	The Role of Agriculture and Natural Resources in Economic Development	The role of agriculture in the economic development of less developed economies. Microeconomic dimensions of agricultural development, economics of food consumption and nutrition, agricultural technology and productivity, agricultural supply, land tenure and agrarian reform, foreign assistance, trade agreements, and agricultural price policy.
ARE	5462	Environmental and Resource Economics	Natural resource use and environmental quality analysis using economic theory. Reviews of empirical research and relevant policy issues.
ARE	6466	Environmental Economics	Economic analysis of environmental problems and corrective policy instruments. Theory of externalities and public goods, role of uncertainty and imperfect information in policy design, benefit-cost analysis, and non-market valuation. Applications to environmental problems (such as air and water pollution, hazardous waste, and occupational health and safety).
ARE	6468	Economics of Natural Resources	Economic concepts and issues related to the allocation of stock resources through time, the use and protection of flow resources, and the role of natural resources in economic growth.
ARE	6470	Applied Research in Environmental Economics	This course develops a broad perspective on the peer-reviewed literature concerning the frontier areas of contemporary environmental economics, with an emphasis on incentive and market-based approaches to ecosystem services, valuation of environmental quality and assets, interface between experimental and environmental economics, including such topics as land use change, conservation, pollution control, water resource services, forest ecosystem management. Students will develop critical thinking skills evaluating published studies and identifying gaps in methodology and knowledge for future research.
ARE	6472	Microeconomics Applications to	Trains students in applied microeconomics, with particular emphasis on food markets and public
BADM	Business Administration		

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BADM	5190	Sustainability in the Global Business	Increasingly business leaders worldwide are recognizing the importance of organizations and broader
BADM	5254	Managing the Future of Social Enterprise	Developing and managing market-based approaches to global human rights and social issues. Strategizing how companies create value both for society and business, including role of for-profit businesses as agents for positive social impact in changing legal, regulatory, policy, and market environments. Regulatory and business strategies that serve markets and promote long-term economic viability, sustainability, and human rights. Managerial perspectives on social innovation, statutory benefit corporations, corporate social certifications, social investment, shared value, strategic philanthropy and business opportunities serving emerging markets.
BASC	Basics		
	5300	Human Oppression: The African-American and Puerto Rican Perspective	Examines economic, political, social and cultural forces operating at global, national and local levels, which generate and maintain oppression based on race and ethnicity in the United States. The course will focus on the oppression of the Black and Latino populations in the United States, highlighting the African-American and Puerto Rican experiences and perspectives. It will provide a framework for analyzing and understanding oppression. A historical perspective will be utilized to explore past and current oppression related to race and color, culture and ethnicity, social class, gender, sexual/emotional orientation and religion. Intercultural, intracultural, psychosocial, social and political responses to oppression will be addressed throughout the course.
BLAW	Business Law		
BLAW	5254	Managing the Future of Social Enterprise	Developing and managing market-based approaches to global human rights and social issues. Strategizing how companies create value both for society and business, including role of for-profit businesses as agents for positive social impact in changing legal, regulatory, policy, and market environments. Regulatory and business strategies that serve markets and promote long-term economic viability, sustainability, and human rights. Managerial perspectives on social innovation, statutory benefit corporations, corporate social certifications, social investment, shared value, strategic philanthropy and business opportunities serving emerging markets.
CE	Civil Engineering		
CE	5370	Environmental Modeling	Introduction to complexities and challenges associated with acquisition of information on environmental processes and characteristics of natural systems. Hands-on experience with selection of measurement strategy and sensing technology; sampling network and protocol design; and <u>deployment, acquisition and interpretation of measurements in natural systems.</u>
CE	5715	Sustainable Transformation	Assesses the role of the land-based transportation system in terms of how it affects the environmental, social and economic goals for a sustainable society. How the concept of sustainability can be used as a holistic framework for assessing the transportation and land use system. Strategies for reducing the environmental, social and economic footprint of the transportation/land use system and ways they can <u>be implemented.</u>

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CE	5812	Ecohydrology	Focuses on the interactions between ecological processes and the water cycle, emphasizing the hydrological mechanisms underlying various terrestrial ecological patterns and the ecological properties controlling the hydrologic and climatic regimes. Topics include conceptual understanding of hydrological cycle over vegetated land, quantifying and modeling flux exchanges in the soil-vegetation-atmosphere continuum, case studies on the hydrological impact of land use land cover changes, ecosystem response to environmental changes, and vegetation-climate feedback at the regional and global scales.
CE	6830	The Flood Problem	Flood hazards. Preventing or alleviating damages. Flood frequency analysis. Effect of land-use/land-cover and soil moisture on flooding. Remote sensing in flood prediction. Flood and dam-break modeling. Multiple purpose projects.
CHEM	Chemistry		
CHEM	5370	Environmental Chemistry I	Sources, transport, effects, fate, analytical chemistry, monitoring and management of chemical
CHEM	5371	Environmental Chemistry II	Inorganic metals and organic chemicals in the environment; energy sources; fossil fuels, nuclear power, fuel cells, and alternatives.
ECON	Economics		
ECON	6466	Environmental Economics	Economic analysis of environmental problems and corrective policy instruments. Topics covered will include the theory of externalities and public goods, the role of uncertainty and imperfect information in policy design, benefit-cost analysis, and non-market valuation. Applications to various environmental problems (such as air and water pollution, hazardous waste, and occupational health and safety) will be discussed.
EDCI	Education Curriculum and Instruction		
EDCI	5555	Environmental Education	Exploration of state, national, and international environmental issues and instructional approaches for developing student awareness, knowledge, and concern for the environment, K-12. Includes classroom and field study.
EDCI	5885	Introduction to Critical Pedagogy	Theory and practice in teaching for social justice with an emphasis on issues of class, race, gender and ethnicity.
EEB	Ecology and Evolutionary Biology		
EEB	5203	Developmental Plant Morphology	Exploration and analysis of diversity in plant form using basic principles of plant construction and development. A research paper is required, in which the principles learned in lecture are applied to the analysis of the development of a plant from seed through reproductive maturity.
EEB	5204	Aquatic Plant Biology	Field and laboratory-oriented study of the anatomy, morphology, ecology, physiology, systematics and evolution of vascular aquatic and wetland plants. A research paper and class presentation are required on a topic pre-approved by the instructor.

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EEB	5220	Evolution of Green Plants	Evolution of morphological and genomic traits marking the conquest of land, the diversification of land plants, and the significance of plants in the evolution of life on earth, global climates and human civilizations. Laboratory session includes study of morphological and anatomical characters of extant and fossil plants, phylogenetic inference from morphological and molecular characters, and discussion of primary literature.
EEB	5254	Mammalogy	Lectures cover diversity, natural history (including behavior, ecology, reproduction, etc.), and evolution of mammals; readings from original literature are included. Laboratories cover anatomy, systematics, and distribution of major groups of mammals.
EEB	5265	Herpetology	Lectures cover environmental physiology, ecology, and behavior of amphibians and reptiles. Emphasis is on readings from the original literature. Laboratories cover evolution, systematics, and distribution of major groups of the world.
EEB	5269	Social Insects	Classification, identification, economic importance, evolution and nomenclature of flowering plants. Laboratory compares vegetative and reproductive characteristics of major families. A research paper and class presentation are required on a topic pre-approved by the instructor.
EEB	5271	Systematic Botany	Classification, identification, economic importance, evolution and nomenclature of flowering plants. Laboratory compares vegetative and reproductive characteristics of major families. A research paper and class presentation are required on a topic pre-approved by the instructor.
EEB	5301	Population and Community Ecology	Overview of population and community ecology, including population regulation and dynamics,
EEB	5310	Conservation Biology	Case studies and theoretical approaches to conservation of biological diversity, genetic resources, plant and animal communities, and ecosystem functions. Topics emphasize ecological and evolutionary principles that form the scientific basis of this emerging, interdisciplinary field, as well as socio-political, legal, economic, and ethical aspects of conservation.
EEB	5333	Evolutionary Developmental Biology	Advanced course in evolutionary biology, emphasizing the underlying developmental bases of evolutionary change. Concepts of homology, constraint, and heterochrony, with examples from both animal and plant systems.
EEB	5360	Functional Ecology of Plants	Physiological, morphological, and structural responses of plants to the physical and biotic environment and to environmental change. Readings, lectures and discussions emphasize plant responses at all levels of organization, from cells to whole plants. Themes include organismal integration, consequences and constraints in plant adaptation, and the functioning of plants within communities and ecosystems.
EEB	5369	Current Topics in Biodiversity	Analysis and discussion of current literature on biodiversity.
EEB	5370	Current Topics in Conservation Biology	Analysis and discussion of current literature on conservation.
EEB	5449	Evolution	A review of our current understanding of the patterns and processes of organic evolution. Class periods will include discussion and critical analysis of primary literature.

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EEB	5500	Introduction to Natural History Collections	Training required for work in the EEB Biodiversity Research Collections Facility. The uses of natural history collections;policies, resources, and databases of the Collection Facility; specimen preparation and labeling; legal and ethical issues; threats to natural history collections.
EEB	5881	Internship in Ecology, Conservation, or Evolutionary Biology	An internship with a non-profit organization, a governmental agency, or a business under the supervision of Ecology and Evolutionary Biology faculty. Activities relevant to the practice of ecology, biodiversity science, evolutionary biology, or conservation biology will be planned and agreed upon in advance by the job site supervisor, the faculty coordinator, and the intern.
EEB	5889	Research	Conferences and laboratory work covering selected fields of Ecology and Evolutionary Biology.
EEB	5894	Seminar	Study and discussion of current researches, books and periodicals in the field of Biology. Subtopic designations: Ec, Ecology; M, Mammalogy; Mec, Marine Ecology; Pr, Parasitology; En, Entomology; Bi, Biogeography;Ev, Evolution; Sy, Systematics.
EEB	6481	Seminar in Biodiversity	Provides the opportunity for students to present research plans, reports of work in progress, and full-
EEB	6482	Seminar in Spatial Ecology	Analysis and discussion of current literature in spatial ecology.
EEB	6484	Seminar in Plant Ecology	Analysis and discussion of current literature in plant ecology.
EEB	6485	Seminar in Comparative Biology	Analysis and discussion of current literature in evolution and comparative ecology.
EEB	6490	Seminar in Behavioral Ecology	Analysis and discussion of current literature in behavioral ecology.
EMBA	Executive MBA		
EMBA	5993	Sustainable Competitive Strategy	How to defend businesses against competitive challenges and environmental change while maintaining high ethical standards. Students focus on game theory, sustainability, and temporal tradeoffs to understand the effects of managerial choices on competitors, internal stakeholders, society and the <u>future performance of the firm.</u>
ENGL	English		
ENGL	6540	Seminar in Literature and Human Rights	The interdisciplinary study of literature and human rights discourse.
ENVE	Environmental Engineering		
ENVE	5252	Environmental Remediation	Regulatory framework. Soil clean-up criteria. Risk analysis. In situ and ex situ Treatment technologies: chemical oxidation, chemical reduction, pump-and-treat, permeable reactive barriers, <u>solidification, stabilization, thermal processes, bioremediation.</u>
ENVE	5530	Geoenvironmental Engineering	Principles of solid waste management; design of landfills and waste containment systems; compacted
ENVE	5810	Hydrometeorology	Global dynamics of aquatic distribution and circulation. Hydrologic cycle, atmospheric circulation, precipitation, interception, storage, infiltration, overland flow, distributed hydrologic modeling, and <u>stream routing.</u>

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ENVE	5811	Hydroclimatology	Focuses on the physical principles underlying the spatial and temporal variability of hydrological processes. Topics include atmospheric physics and dynamics controlling the water/energy budgets; global water cycle, its dynamics, and causes of variability/changes; occurrence of drought and flood; climate teleconnections and their hydrological application; hydrological impact of global changes; <u>quantitative methods in hydroclimatic analysis.</u>
ENVE	5812	Ecohydrology	Focuses on the interactions between ecological processes and the water cycle, emphasizing the
ENVE	5850	Sustainable and Resilient Water Governance and Management	Overview and assessment of water institutions and management approaches that contribute (or not) to sustainable and resilient water resources under changing climate conditions, demographic and economic shifts. Course requirements include translating scientific information for water managers or writing a publishable co-authored research paper.
GEOG	Geography		
GEOG	5220	Geography of Sustainable Development	Conceptualizing international development; understanding theories, strategies and ideologies of development; and use of case studies to understand development in practice. Emphasis placed on the concept of sustainable development and sustainability, grassroots-driven approaches to development, the role of women, and geographic explanations as to how and why uneven development has occurred.
GEOG	5310	Advanced Fluvial Geomorphology	
GEOG	5560	GIS and Environmental Geography	Applicability of Geographic Information Systems to solve environmental problems. Case studies address environmental assessment and monitoring, analysis and modeling, planning and management.
GEOG	6820	Advanced Topics in Regional Analysis	Analysis and discussion of current literature in Regional Analysis.
GEOG	6830	Advanced Topics in Population Geography	Analysis and discussion of current literature in Population Geography.
GEOG	6840	Advanced Topics in Urban Geography	Analysis and discussion of current literature in Urban Geography.
GEOG	6850	Advanced Topics in Geography of	Analysis and discussion of current literature in Geography of Public Policy.
GEOG	6860	Advanced Topics in Economic Geography	Analysis and discussion of current literature in Economic Geography.
GEOG	6870	Advanced Topics in Physical Geography	Analysis and discussion of current literature in Physical Geography.
GEOG	6880	Advanced Topics in Environmental Geography	Analysis and discussion of current literature in Environmental Geography.
GSCI	Geoscience		
GSCI	5550	Physics of the Earth	The composition, structure, and dynamics of the earth's core, mantle, and crust inferred from observations of seismology, geomagnetism, and heat flow.
HIST	History		

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HIST	5218	Historical Conceptions of Race and Science	Historical examination of the interplay between concepts of race and scientific naturalism as they emerged in the eighteenth, nineteenth, and twentieth centuries. Attention also paid to political and social contexts.
HIST	5543	Social Change in 19th Century America	Major sources of social change in 19th-century United States, including legacy of the American Revolution; fate of Native America; rural society; slavery; industrialization; immigration; class formation; race; the impact of Civil War and Reconstruction.
HIST	5544	American Land and Society	Examines the historical literature on American ideas about landholding and agriculture from the 18th to the 20th century and their impact on society, culture, and the environment.
HRTS	Human Rights		
HRTS	5254	Managing the Future of Social Enterprise	Developing and managing market-based approaches to global human rights and social issues. Strategizing how companies create value both for society and business, including role of for-profit businesses as agents for positive social impact in changing legal, regulatory, policy, and market environments. Regulatory and business strategies that serve markets and promote long-term economic viability, sustainability, and human rights. Managerial perspectives on social innovation, statutory benefit corporations, corporate social certifications, social investment, shared value, strategic philanthropy and business opportunities serving emerging markets.
HRTS	5301	Contemporary Debates in Human Rights	Key Debates in Human Rights will introduce students to the main modern debates in the academic field of human rights. It is interdisciplinary in scope, including recent intellectual contributions from philosophy, law, political science, sociology, anthropology, literature and history. It will address a number of central issues and questions, including the normative philosophical foundations of human rights, whether human rights are universal or relative, whether human rights can be held collectively, and the justifications for women's rights and cultural rights.
HSA	Humanitarian Services Administration		
HSA	5312	Issues in Humanitarian Studies	Examines current issues of Global Human Development from the perspective of non-governmental organizations (NGOs), private voluntary organizations, international organizations (IOs), multi-governmental aid and humanitarian assistance agencies, the U.S. military and government sponsored aid organizations. Students gain a comprehensive, multidisciplinary understanding of issues facing these organizations and stresses that are currently forcing many to reevaluate their current policies and procedures.
HSA	5325	Advocacy and Grassroots Development	Addresses the importance of advocacy in the sustainable development process. Introduces the concept of advocacy, its role and functions in sustainable development and empowerment. Students will be given the opportunity to explore ways and means to develop effective advocacy programs.

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HSA	5332	International Human Rights	Addresses the evolution of international human rights and of the legal instruments designed for their promotion and protection, It will study the theoretical foundations of the idea of human rights in various civilizations and cultures, evaluate its legacy within the western and non-western traditions, and examine its meaning and relevance in the contemporary world.
HSA	5377	Environmental Compliance and Regulations	Compliance and knowledge of a whole new generation of environmental regulations is required of all managers. This course begins with general compliance obligations, common law, trespass, nuisance and negligence. The major federal environmental laws affecting companies and agencies are reviewed along with even more stringent state and local regulations. Also presented is a view of the severe civil and criminal penalties liabilities attached to environmental regulations, and a discussion of the sharply increasing punishments for non-compliance. The final section of the course will outline strategies for compliance with specific comments on proactive environmental management as a method for reducing legal exposure from environmental issues. This is required of managers and it empowers private citizens.
MGMT	Management		
MGMT	5639	Diversity and Inclusion	The globalization of product, labor, and capital markets has led to significant changes in the demographic composition of the international labor force. This course chronicles and examines the transition that is taking place in the global workforce due to the increased diversity in employees on the basis of personal characteristics such as sex, race/ethnicity, and national origin. Examines how employers respond to these new workforce realities and how workforce inclusion strategies can contribute to positive outcomes for employers, employees and their families, and other stakeholders.
MARN	Marine Science		
MARN	5014	Marine Phytoplankton Ecology and Physiology	The physiology of marine phytoplankton, environmental factors affecting their growth and photosynthesis in the ocean, the oceanographic processes responsible for the temporal and spatial distributions of phytoplankton biomass and production, and current topics in phytoplankton research.
MARN	5017	Plankton Ecology	Ecology of planktonic organisms (bacteria, protista and metazoa). The evolutionary ecology concept, methods of research, special features of aquatic habitats; adaptations to aquatic environments; population biology; predation, competition, life histories, community structure, and role of plankton in <u>ecosystem metabolism</u> .
MARN	5018	Ecology of Fishes	General concepts in fish ecology such as distribution, feeding, bioenergetics, growth, larval fish ecology, biotic interactions, life history evolution and other contemporary research topics.

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MARN	5032	Coastal Pollution and Bioremediation	Overview of processes and compounds leading to pollution in the nearshore marine environment. The impact of pollution on the marine food web and its response is emphasized. Alleviation of pollution through metabolism of organisms, including bacteria, seagrasses and salt marshes.
MARN	5033	Marine and Atmospheric Processes of Global Change	Fundamentals of marine and atmospheric processes in global biogeochemistry. Evaluation of atmospheric, biological and chemical processes that contribute to global change.
MARN	5066	River Influences on the Marine Environment	Influences of rivers on estuaries, coastal and open ocean water properties, energy budgets and ecosystems including inputs of buoyant waters, sediments and pollutants and variability from storms, seasons, human alterations and climate change. Recommended preparation: calculus and general physics.
MARN	6010	Advanced Biological Oceanography - Pelagic Processes	Pelagic communities, ecosystem structure and function, bioenergetic constraints, population dynamics, consequences of global climate and environmental change, and advances in the field driven by technological innovation.
NRE	Natural Resources and the Environment		
NRE	5155	Principles of Nonpoint Source Pollution	An advanced investigation of sources, impacts, modeling and management of nonpoint sources of water pollution.
NRE	5200	Sustainable Natural Resources Management	Explores social-ecological systems, including relationships between ecosystem services and human well-being and livelihoods; introduces systems theory for understanding disturbance, feedbacks, thresholds, directional change, adaptation and resilience in social-ecological systems; includes applied case studies in sustainable agriculture, fisheries, forestry, freshwater, marine, and wildlife.
NRE	5220	Environmental Planning for	Principles of environmental planning with application to human health, natural areas, working
NRE	5252	Physiology and Ecology of Trees	An examination of the interactions between trees and their environment at the molecular, individual and forest stand scales. Lectures and reviews of current research span at least two spatial scales of organization for each course topic. Course topics include tree carbon balance, water relations, mineral nutrition, morphology, genomics, phenology, climate change and modeling.
NRE	5325	Wildlife Management	The application of ecological principles as practiced by natural resource agencies throughout North America.
NRE	5335	Advanced Stream Ecology	Introduction to the current state of knowledge and research in rivers and streams. Topics include both basic structure and function of stream habitats and biotic assemblages as well as branch into the management and conservation applications of ecological information.
NRE	5461	Landscape Ecology	and the influence of disturbance and underlying geomorphology on landscape pattern. Consideration
PUBH	Public Health		
PUBH	6493	Health: Exposures, Risk and	
SOCI	Sociology		

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SOCI	5471	Energy, Environment, and Society	Sociological perspectives on energy production, distribution and consumption; environmental impacts and constraints; lternative energy and environment futures; and cross-national studies of policy formation and implementation.
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