

## Courses included in Sustainability Inventory (Completed Dec. 2015; includes courses taught over past 2.5 yrs)

Grad Sustainability Course	Grad - Includes Sustainability	UG Sustainability Course	UG - Includes Sustainability	Includes campus/ community as lab	Name of Course	Course Number	How sustainability included in the class
		1			Introduction to Culture and Society	ANTH200	social sustainability included through several case studies - provides a framework for the systematic analysis of various sociological and anthropological questions pertaining to the human condition: sources of human conflicts, bases of sex roles, the causes of stratification, etc.
		1			Global Perspectives on Sexuality	ANTH225	subject of politics, commerce and public imagination at the state and global level. Exploring such topics as Human Trafficking, HIV/AIDS, Cybersex, and the emergence of new sexual identifies, this course examines sexuality in a global context
		1			Introduction to Race and Ethnicity	ANTH230	address broader questions about race by focusing on contemporary racial and ethnic divisions and by examining the history of these concepts in the Western Hemisphere
1	1	1			Food and Society	ANTH285/586	sustainability of our food systems included through several case studies. examine the nature and history of contemporary patterns of consumption and production and the impacts of these patterns and changes on our health and our environment
		1			Racial Inequality in the US	ANTH320	social sustainability included through several case studies
		1			Cities and Social Justice	ANTH332	this course explores such issues as cities' management of natural and vital resources (f.ex. water or electricity), the built environment and its relationship to social identities and social engineering, global networks of cities in terms of labor markets, capital, and commodities, and their effects on urban lives, cities as sustainable environments, and last but not least, the cities as sites of social and racial in/justice.
1	1	1			Consumption and Culture	ANTH381/581	examine the rise of consumer culture and its link to other social and economic changes; we will explore the systems of meaning which we use; and we will consider the implications - political, social and ecological - that our culture and our consumption entails.
		1			The Anthropology of Inequality	ANTH397	The course will centrally argue that equality or its absence are preeminently social outcomes caused by the presence or absence of mechanisms for social redistribution or the accumulation of wealth
		1			Biology and Society	BY110	Course topics are presented from the perspective of current issues in ... and human impact on the biosphere
		1			Contemporary Issues in Environmental Science	BY130	examines how human activity impacts the environment. Case studies of chemical exposures, life cycle assessments, and integrated resources management will be used to discuss the process of environmental decision making.
		1			Ecology	BY222	Ecological interactions will be explored at the individual through ecosystem level in terrestrial, freshwater, and marine habitats. Emphasis will be on fundamental ecology, but applications to human-related problems will be explored.
		1	1		Ecology Lab	BY224	Students do field experiments on environmental impacts of edge effects, and reflect on how to deal with them. They collect data associated with monitoring forest health and change.
CGI STS	1	1	1		Environmental Science and Policy of American Rivers	BY240	Students will learn (1) how rivers function,(2) become familiar with the natural communities the Hudson River watershed; (3) understand how humans impact rivers and are impacted by them, and (4) understand how law, policy, and peoples actions have resulted in changes in the environmental management of the Hudson and other American rivers.

1	1	1	Plant Science of Northern New York	BY302	Forestry and agriculture practices in our region are discussed. Conservation of species emphasized throughout the course.
1	1	1	Adirondack Ecology and Environmental Science	BY312	learn major features of ecological systems in the Park. The course will also provide the students an assessment of human impacts on the ecology of the Adirondack Park
1	1	1	Microbiology	BY320/BY520	Hypotheses of microbial control over biogeochemical cycles is emphasized. The role of microbes in developing green technologies for waste treatment and product development is emphasized.
1	1	1	Conservation Biology	BY 328/528	The focus of conservation biology is on how to conserve species and ecosystems in the face of global environmental change.
1	1	1	Great Lakes Water Protection	BY330/EV330	Limnology is classically divided into three topic areas: physical, chemical and biological. I have added the topic area of sustainability since as it states in the course abstract: "Clean fresh water is of central importance to the welfare of the natural environment, human health, and our economy." Case studies are included at the end of the course.
1	1	1	Biological Systems and Environmental Change	BY 425/BY525	Human activities are resulting in dramatic global environmental change. We examine how these forms of environmental change disturb biological systems by critically reading key research papers, and discussing their implications for future research and policy action.
1	1	1	Limnology	BY431/BY531	Limnology (aquatic science) is the study of physical, chemical, and biological properties of fresh water bodies, e.g. lakes, rivers, reservoirs, and wetlands. This introductory course will provide an array of topics that will, by the multi-disciplinary nature of limnology, call upon students' knowledge of biology, chemistry and physics and place them within the context of aquatic science. Case studies relate limnology issues to human impacts
	1	1	Limnology Lab	BY432	students engage in water sampling of regional lakes and rivers, analysis of samples in the laboratory
	1	1	Chemical fate and transport in the environment	CE480	Quantify how human activities related to pollutant releases can impact the environment. Complete case study of emerging contaminant fate and transport in the environment
1			Watershed Analysis	CE569	CE 569 focuses on physical hydrology (rather than engineering hydrology) and the modeling of hydrologic systems. Pressure on water resources is covered through literature review, homework, and projects.
	1	1	Introduction to engineering design	CE212	Students in the course learn about the engineering design process through designing a point-of-use drinking water treatment system for a community in the developing country. Students are charged with incorporating societal constraints into their design. use of local resources is strongly encouraged in appropriate technology solutions.
		1	Geographic Information Systems	CE301	The students do one week long project where they focus on creating a sustainable landuse development plan for their home county using multi-criteria decision making analysis. They produce a map recommending sustainable areas for development that avoid high quality agricultural areas, wetlands and forested areas.
	1		Introduction to Environmental Engineering	CE340	Development of skills related to application of mass balances for solving complex engineering challenges, the common thread for which is sustainable infrastructure and related core concepts of green design. Students complete three laboratory and design problems, most recently related to sustainable food production systems, low impact development and sustainable building infrastructure, and indoor air quality in urban offices.
		1	Building Information Modeling (BIM) and Intergrated Project Delivery (IPD)	CE408	introduction to the emerging field of building information modeling and integrated project management for construction projects. Projects applied to real-world campus related issues. For example, design of Adirondack hiking huts in collaboration with student project in ADK Semester

	1		Water Resources Engineering I	CE330	The issues related to sustainability of various topics covered in the class (i.e. hydrology, ground water flow). There are no specific problems/projects typically but the issues are addressed.
	1		Fundamentals of Building Systems	CE409	The course is designed as a survey course of MEP systems in buildings and as such highlights the use of energy and water. Sustainability is a topic throughout, but specific to energy and water savings primarily, including passive techniques. The opening lectures highlight sustainability as an overarching need and include discussions of LEED and other rating systems.
1	1		Sustainable Infrastructure and Building	CE410/CE510	The entire focus of this course is how to build in a sustainable manner both in terms of buildings but also in terms of infrastructure. The course covers the LEED and Envision sustainability rating systems but also touches on other systems. The semester project for the class is applying LEED or Envision to a project and executing a sustainability rating as is, as well as providing suggested sustainable improvements.
	1		Water Resources Engineering II	CE430	CE 430 covers hydrologic principles, which intrinsically operate at the interface of human and natural systems. The course project is to assess the hydrologic impact of removing man-made structures from the landscape.
1	1		Human Exposure Analysis	CE433/ES533	An important, but often neglected, factor in green buildings is the indoor air quality. The class learns about indoor air quality, major indoor sources, and how various factors (e.g., ventilation, building materials, occupation) impact our exposures.
1	1	1	Sustainable Development Engineering	CE434/534	This course outlines the principles of sustainable development engineering for improving sanitation and environmental health in developing communities both internationally and nationally. Topics include sustainable development and appropriate technologies for water and wastewater treatment, water storage and delivery, watershed management, solid waste management, and indoor air quality.
1	1	1	Groundwater Hydrology and Geochemistry	CE435/535	Throughout the semester, in addition to learning technical aspects of groundwater hydrology and geochemistry, we cover/discuss water access issues as a function of environmental and societal factors; the impact of climate change on groundwater supply, demand, and quality; and environmental justice as it relates to groundwater contamination.
		1	Introduction to Architectural Engrg.	CE448	integration of architecture and engineering disciplines in building design issues of structural, electrical, HVAC, plumbing, environmental, and acoustical engineering in buildings; economic, construction, and spatial maintenance considerations; professional practice and building codes.
1	1	1	Stream Riparian Systems and Fluvial Morphology	CE470/CE570	The course discusses how streams and their riparian zones and floodplains are interconnected and the importance of considering the entire system when considering changes to the stream or surrounding systems. The sustainable management of river systems is the focus of the class and a project related to this topic is a major focus of the class instruction.
		1	Solid Waste Management and Landfill Design	CE478	essential concepts of solid waste management to include identification, collection, transport, processing and disposal of solid wastes. Emphasis is placed upon the legal requirements and practice resulting from the Resource Conservation and Recovery Act (RCRA) and applicable state law.
1	1		Water and Wastewater Engineering	CE479/CE579	Includes sustainability principles as they relate to water and wastewater infrastructure including discussions regarding energy requirements of engineering options, practice of water and wastewater infrastructure, developments of new technologies for efficiency and recovery.
	1	1	Hazardous Waste Management Engrg	CE481/CE581	provides an understanding of environmental regulations, management techniques to minimize the generation and disposal of hazardous wastes, and technologies to treat wastes and remediate disposal sites
1	1		Environmental Systems Analysis	CE482/CE582	the course content of the course teaches the skills to assess environmental systems in a large scale. As such we use the sustainability principles throughout the entire class and as part of the students optimization project.
1	1	1	Industrial Ecology	CE486/CE586	Sustainability principles the basis for the course. Student projects solve local sustainability problems.

1	1	Senior Design (Bldg and Arch)	CE490/492	comprehensive design of an open ended project related to architectural sustainable construction, structural, geotechnical/foundation, environmental quality and construction management developed by teams of students. The design will be based on knowledge acquired in prior courses, sustainability, professional ethics and engineering economics.
1	1	Water Resources Senior Design	CE491	The projects over the past several years have specifically related to the sustainability of streams and riparian zones. Projects involve designing water resources systems that are sustainable and do not cause unnecessary harm to other ecosystems.
1	1	Computational River Dynamics	CE571	Develop and apply computational models to solve sedimentation problems in rivers and streams. Sustainable management of river systems is addressed in the course.
1	1	Sediment Transport	CE573	Sediment is one of the key elements on the Earth surface where we are living. Sediment transport causes morphology changes in water bodies and land surface and may create environmental concerns. Sustainable management of sediment is an important task and issue in Sedimentation Engineering. the course focused on developing a proposal to upgrade a local municipal wastewater treatment plant. Using aspects of sustainability the students had to incorporate energy efficiency constraints in designing a more energy efficient wastewater treatment system. Several student teams developed net-zero energy consuming wastewater systems through the waste co-digestion and energy generation of organic material
1	1	Biological Processes	CE682	Emphasis will be on solving environmental problems in a sustainable manner. water and wastewater treatment plant design, hazardous waste site remediation, groundwater remediation and solid waste disposal
1		Env. Engrg. Design	CE686	There is a module on solutions other than new end-of-the-pipe technology with an extensive introduction to success stories like 3M who have reduced emissions and/or waste disposal costs by changing their processes to more environmentally friendly approaches. The students are encouraged to include sustainability into their paper and presentation in which they have to define an air pollution control problem and describe how you would implement a solution.
1	1	Air Pollution Control	CH434/ES534	The course explores the chemistry and physics of current atmospheric pollution issues, including urban smog, acid rain, global warming, stratospheric ozone depletion, visibility, and indoor air quality. We look at global cycles and human induced perturbations on these cycles. evolution of the atmosphere from its initial formation to its natural background condition to its current state perturbed by human activities;
1	1	Atmospheric Chemistry	CH576/CE477/CE577	modern view of current and emerging research in nanotechnology and sustainability implications of nanotechnology. Topics will include: fundamental nanoscale properties and applications, green manufacturing and assembly in functional devices, interaction of nanomaterials with biological systems, the physical and chemical phenomena at nano-bio interfaces, fate, transport and transformation of engineered nanomaterials, environmental and health impact, nanometrology, nanotoxicology and hazard identification of nano-based products. Students will be able to demonstrate a basic awareness of risks and benefits of emerging technologies and evaluate overall environmental and societal impact.
1	1	Sustainable Nanotechnology	CM 475 / CM 575 / ES 575 / MSE 575	
	1	Chemistry Lab I	CM105	This course involves multiple units, including a final project, focused on solid biofuel analysis and sustainability. There are also units related to liquid biofuel production efficiency.
	1	Chemistry Lab II	CM106	This course involves multiple units, including a final project, focused on solid biofuel analysis and sustainability. There are also units related to liquid biofuel production efficiency.
1	1	Bioanalytical Chemistry	CM425/ CM525	Includes a module on how instrumental designs are selected for method development to minimize waste and reagent use. It also discusses how materials are designed to promote safe and green manufacturing to minimize environmental impact.

	1		Environmental communication	COMM428	focus on a variety of documents related to current environmental issues, many relevant to northern New York, in order to examine the rhetoric deployed in such documents by industry, environmental organizations, scientists, and politicians.
		1	Introduction to Information Technology	CS110/IS110	In one chapter we discuss sustainable IT infrastructures including discussion of e-waste, power consumption, and different technological solutions to reduce IT power consumption.
1	1		Environmental Economics	EC360/EC660	The focus of the course is applying economics approaches to understanding and helping to solve environmental problems.
		1	Energy Conversion	EE331	The course focusses on energy conversion between electrical and mechanical forms, with application to wind generation and to efficient use of electricity. There are also sections on transformers and the electronic conversion of energy from direct to alternating current.
1	1	1	Alternate Energy Systems	EE438/EE538/ES438	The main focus of this course is to introduce the wind, photovoltaic, hydro and other sustainable energies as power generation resource, and how to technically and economically evaluate their sustainability into power system.
	1		Advanced Topics in Emerging Power Systems	EE536	concepts, technical features, operational and management issues, economic viability and market participation in deregulated environment of Microgrid with the presence of significant distributed energy resources (DER).
		1	Intro to Industrial Hygiene	EHS309	The course introduces sustainability to the class, the triple bottom line, how it relates to corporate Sustainability and the link to worker safety and health.
		1	Introduction to Industrial Hygiene Laboratory	EHS310	Labs completed requiring knowledge and communication of both environmental health and public health
	1		Safety Analysis - Environment, Health, and Safety Assessment	EHS330	Contemporary Environmental, Health and Safety (EHS) management techniques for occupational settings.
		1	Methods and Analysis	EHS405	
		1	Industrial Hygiene Control Methods	EHS406	Ways to prevent and solve common industrial hygiene problems will be considered; topics will include typical engineering controls, administrative controls and personal protection to control chemistry exposure and releases
		1	Advanced Topics in Environmental and Occupational Health	EHS481	students to work in a project-based mode on a broad array of topics in environmental health
	1		Team-based Design and Innovation	EM120	Students learn about Sustainability principles and how to perform a Streamlined Life Cycle Assessment. They then perform an SLCA on a product as a team assignment.
		1	Technological Entrepreneurship	EM121	Student use knowledge from EM 120 to perform a Stream-lined Life Cycle Assessment of their own product created by their team.
		1	Process Engineering and Design	EM456	Sustainability aspects are considered among the criteria of the student design projects. The performance of the design with respect to sustainability factors (e.g. energy & materials consumption, recycling) is considered in evaluation of the student designs.
1	1		Risk Analysis	ES432 /EV532	evaluation of the hazardous properties of substances, the extent of human exposure to them and the characterization of resulting risk Students learn about connections between engineering and the social/environmental systems, thus sustainability is woven throughout.
		1	Engineering and Society	ES110	Design project is to design and build a prototype wind turbine, and in the process we learn about energy resources and the potential for wind as one component of the solution to our current energy challenge, technically and socially.
		1	Introduction to Energy Systems	ES238	Explores sustainable energy alternatives as options to a secure energy future. Also evaluates sustainability of our current energy resources and consumption patterns.
	1	1	Sustainable Water Resources Management	ES240/EV340	The course focuses on water resources management and sustainable design (green engineering principles and applications) including design practice and analysis, in the context of the Hudson River Basin.

1	1	1	Climate Change: Engrg., Sci, & Policy	ES436/536	Students learn how humans have influenced earth's climate, how those changes are affecting humans and the environment and means for mitigating and adapting to climate changes. A semester project requires students to define a particular issue and analyze options for mitigation or adaptation. Campus GHG inventory used.
	1	1	EV 100 Intro to Environmental Science and Policy	EV100	Lectures, case studies and student presentations related to sustainability
	1	1	Sustianability and the Environment	EV305	Projects to evaluate Sustainable solutions to environmental problems.
	1		Biogeochemical Systems Science	EV313, BY 313, CE313	Lectures, HW and case studies related to pollution flows through the environment and their human and environmental impacts
		1	Environmental Science Capstone Proposal	EV399	Students complete independent project related to sustainability
		1	Environmental Science Capstone	EV400	Students complete independent project related to sustainability
1			Environmental Sustainability and Risk Analysis	EV531/ES531	Concepts of sustainability, life-cycle assessment and environmental management strategies will be examined in the context of an organization's long-term goals. Sustainability is a new approach to environmental management that employes systems thinking/analysis to solve multiple problems with integrated solutions.
	1	1	Adirondack Ecology & Environmental Science	EV312/BY312	The course will also provide the students an assessment of human impacts on the ecology of ADK Park including but not limited to air and water pollution as well as energy systems. This course will explore the characteristics of the entrepreneurs of the park while also understanding the opportunities and challenges that these entrepreneurs face. It will also explore the theories of externalities and public goods applied to pollution and environmental policy.
	1	1	Entrepreneurship and Economic Development in the Adirondacks	EV315/EC315	
	1	1	Social and Political Issues in the Adirondacks	EV320/SS320	The historical, social, political, and environmental factors contributing to the fabric of the Adirondack Park is an evolving social experiment. The Adirondack State Park is extraordinary for its history and because it is a place where human residents live and recreate in sustainable ways that conserve resources and 'forever wild' regions of the park.
	1		Environmental Leadership	EV300	examines both contemporary and historical environmental leaders.
	1	1	Adirondack Integrated Research Project	EV314/EC314	course will task students to analyze and suggest solutions to complex problems relevant to the economic, social, and environmental welfare of the Adirondack Park. To understand a place, one must often understand the views of nature and the environment as seen by writers and essayists. Students will explore the Adirondacks through literature while experiencing the lakes, rivers, streams, and mountains. The readings, discussions, and written assignments will explore the aesthetics, the social and political climate, and the prevailing attitudes toward the environment that helped create the Adirondack Park.
	1	1	Adirondack Park: A sense of place	EV322	Includes a two-week intensive work/study experience at a business with a stated sustainability focus. Students successfully completing this course will gain a better perspective on the technology, business, cultural and regulatory constraints and opportunities that enable the enterprise to operate in a sustainable fashion.
	1	1	Sustainability Project Experience	EV390	explore major film-making movements that fall within a category of "cinema of resistance." We will discuss concepts in and approaches to film theory and film-making that resist a Western, hetero-normative, white, and/or patriarchal discourse and will contextualize feminist and queer cinema, black cinema, postcolonial, imperfect, and third cinema, among others.
		1	Cinemas of Resistance	FILM230	Social sustainability - allows students to describe and interpret the complex nature of cultures and societies in historical context. The movements will focus on issues of racial civil rights, workers' rights, the women's movement, the gay rights movement, the American Indian Movement and the Students' Movements. Ranging from 1945 until the present day the course illustrates the process of social, cultural, and geopolitical change over time
	1		Documenting Social Activism	HIST332	

1			Global History	HIST255	looks at global patterns through time, and attempts to see history as an integrated whole. Topics are studied in a general chronological order, but each is examined through a thematic lens, showing how people and societies experience exchanges, integration and differences
1			Science, Technology, and Society in the Renaissance	HIST333	this courses will chart the extraordinary technological and scientific advances and profound economic and social changes that together mark the birth of the modern world
1			History of Women and Gender in America	HIST327	includes the ways in which gender intersects with race, ethnicity, class, sexuality, region, and religion in explaining social, cultural, and political developments in the United States.
1			Philosophy for Life	LIT222/PHIL222	we will learn to think philosophically about complex and difficult questions. We will study practical life philosophies from both the Eastern and Western traditions, from the Tao Te Ching to Marcus Aurelius, and from Plato to the Dalai Lama, including pilosophies on environmental stewardship and human life.
1			Violence and Reconciliation	LIT335	the past two decades have catalyzed global changes in the ways we think about peace-building and reconciliation. the class will participate in a simulation of negotiations for reconciliation in the aftermath of a nationwide conflict.
1			Imagining the Sacred	LIT310	Students will examine the literature of East Asia and the Subcontinent that emerge directly from the religious and spiritual traditions of Hinduism, Buddhism, Taoism and related doctrines, including views on environmental stewardship and respect for life.
1			Environmental Law and Policy	LW620	This course addresses procedural and substantive issues of law and regulation affecting environmental and natural resources. Further, the course will review and consider the policy implications of actions (or inaction) that impact the environment and to see environmental issues from multiple perspectives.
1			Applied Statistics II (Advanced Applied Statistics)	MA384	Case studies and projects applied to environmental problems
1			Thermodynamic System Engineering	ME310	Concept and desiogn for energy efficiency integrated throughout
1			Fluid Mechanics of Aerosol Dispersion	ME537	The course projects involve computer modeling of particle resuspension, transport and deposition.
1			Particle Transport, Deposition and Removal II	ME637	The course projects involve computer modeling of particle resuspension, transport and deposition.
1	1	1	Supply Chain Environmental Management	OM671/EM361 /SB361	1. Deals with approaches to manage product and processes through development, design, sourcing, manufacturing and logistics stages while minimizing environmental impacts. 2. Includes evaluation of environmental footprint of products and processes.
1			Organizational Policy and Strategy	OS432	integrate the functional areas and tools of management studied in previous courses within a strategic planning framework giving due attention to ethical and social responsibility concerns and international business issues
1	1		Negotiations and Relationship Management	OS466 / OS666	establishing, negotiating, building, sustaining, and repairing of both workplace and external relationships, including relationships with employees, management, customers, suppliers, manufacturers, shareholders, society, and other key stakeholders
1			Business Ethics	PHIL243	includes the intersection of business ethics and the environment.
1			Environmental Ethics	PHIL370	Ethics, as a primary philosophical framework for all social systems, is certainly applicable to environmentalism and sustainability as social systems and movements. Our discussion and application of ethical concepts and principles cover topics that are also part and parcel of sustainability.
1	1		Sustainability Theory and Practice	PHIL405/505	The whole course is focused on sustainability as a chapter in the American environmental movement. It examines critically sustainability's core concepts and assumptions.
1	1		Where the Wild Things Are	PHIL410/510 / EV410	This course looks to developments that have come out of the sustainability movement but that seek to supplant or go beyond sustainability.
1			Human Rights Law and Politics	POL362	The politics and law framed around various conceptions of Human Rights are primarily responses to perceived crimes against people based on their ethnicity, religion, gender and/or age.

1	1	Biofuels and Farm Policy	POL371 / 572	biofuels have huge sustainability implications, so does food / farm policy.
	1	Environmental Political Theory	POL374	examine the relationship between nature, politics, and the political economy. We will also examine a wide spectrum of ideas on political, economic, social and scientific matters expressed by contemporary environmental thinkers
	1	Environmental Law	POL375	examining the relationship between the Courts and various policies, laws, and regulations pertaining to the restoration and management of the environment. The central issues in the cases we will be examining emerge from the tension between property rights and what has been conceived as a constitutional right to a clean, healthy environment.
1	1	Environmental Policy	POL470 / 570	Public policy as it relates to environmental issues is used to intervene to alleviate problems, such as industrial pollution, that threaten the integrity of the natural resource base and the natural and built environments on which our lives and livelihoods depend.
1	1	Energy Policy	POL471 / 571	All energy involves sustainability concerns.
	1	Corporate Ethical Decision Making	SB609	understand the role of business in society (including the influences of various macro-environmental forces, such as technological, social/cultural, political, that influence corporate decision making), and become adept at applying sound ethical reasoning and decision making in their daily professional lives
	1	Women and Religion	SOC310	examine the position of women in the major religious traditions of the world, with a special concentration on Christianity. Historically and cross-culturally women have largely been relegated to the status of the profane and passive other in the domain of the religious. This religious alienation has profound implications not only for the spiritual lives of women but for the personal, social, political, and economic aspects of their existence as well.
1	1	Health, Wealth, Inequality and the Environment	SOC330 / 530	examine how social inequality impacts the relationship of people to their environment and how it affects their physical well being. We will examine sociological and public health literature pertaining to environmental health on a global level and also address public policies that may affect health and environmental justice
	1	Globalization	SOC351	addresses the economic, political and social change collectively referred to as 'globalization.' The concept of globalization will be analyzed from a number of perspectives.
	1	International Development and Social Change	SOC350	Students are introduced to competing explanations of the modernization process and the movement of nations from less industrialized to industrialized status. Other topics covered are the causes and consequences of poverty and famine and hunger, and policies to alleviate these social ills
	1	Biostatistics	STAT318 / BY318	apply statistical concepts and analytical methods to data from a wide range of biology-related fields, such as ecology, evolution, environmental science.
	1	Global Service	UNIV299	one-to-two week trip abroad for a service learning experience. Each section, centered on a unifying theme and geographic location, will include three components: experience, reflection and action.
	1	International Service Learning	UNIV349	collaboration with non-governmental organization to develop appropriate technology and improve quality of life in a target community overseas. During a semester-long class that meets weekly, students develop an appreciation of the issues involved in international development and an understanding of the context of their project, while at the same time working in teams to solve technological problems according to the NGO's specifications and community's needs