BIOL 1112 -	3 hours (3;3) Study of major theories and principles of biology pertaining to	
Contemporary Biology	cell and molecular biology, form and function of tissue and organ systems,	
(BIOL 1413)	and principles of ecology as they relate to animal and plant diversity and	
	evolution; ethical and social issues relating to humans as components of	
	living systems. Includes laboratory.	
BIOL 1122 - Plant	3 hours (3;3) Plant structure and function; plant genetics, reproduction and	
Biology (BIOL 1411)	development; role in ecosystems, agriculture and industry; food resources	
	and human population. Includes laboratory.	
BIOL 1132 -	3 hours (3;2) Interdisciplinary approach to understanding basic concepts in	
Environmental Science	environmental science including critical scientific thought, biodiversity,	
(BIOL 2406)	resource management, pollution, global climate change, resource	
	consumption and population growth. Emphasis on how these concepts affect	
	and are affected by human society. Includes laboratory.	
BIOL 3150 - Biology and	2 hours (1;3) The anatomy, functional and behavioral adaptations and	
Conservation of Birds	ecology of birds. Laboratory emphasis on field identification, behavior,	
	habitats, migrations, food habits of birds. Population management and	
	conservation practices.	
BIOL 3160 - Biological	3 hours Principles and values relating to natural biological resources;	
Resource Conservation	ecological concepts applied to resource management and protection of	
and Management	aquatic organisms, rangelands, forests and wildlife.	
BIOL 3170 - Plants and	3 hours Relationships of plants to the environment and human activities;	
Human Society	impact of plants on human social development, history, economics and	
	religion.	
BIOL 4005 -	1–3 hours Contemporary topics in biological sciences. Specific titles vary but	
Contemporary Topics in	may include microbiology, molecular biology, physiology/neuroscience,	
Biology	ecology/environmental science, botany and zoology.	
BIOL 4053 -	3 hours Introduction to the subantarctic ecosystems and cultures of Southern	
Introduction to	South America (geography, climate, ethnography, environmental philosophy	
Subantarctic	and ecology) and exposure to both the practical and theoretical aspects of	
Biocultural	biocultural conservation, including its interdisciplinary character integrating	
Conservation	the sciences and humanities.	
BIOL 4100 -	3 hours Principles and practices of preparing environmental impact	
Introduction to	assessments and statements. Addresses how to understand the effects that	
Environmental Impact	projects, plans and policies have on the environment and the impact those	
<u> </u>		
Assessment	effects have on specific resources, ecosystems and human communities.	
	Methods for identifying impacts, describing the affected environment,	
	predicting and assessing impacts and selecting the proposed action from a	
	group of alternatives for meeting specified needs are examined.	
BIOL 4120 -	3 hours Presents a scientific overview of environmental contaminants; their	
Environmental	occurrence, sources and impact on humans and the environment.	
Chemistry		
BIOL 4130 - Economic	3 hours Distribution, production, history and botany of plants of economic	
Botany	importance.	
BIOL 4290 - Marine	3 hours Covers the basics of marine biology with a global approach, using	
Biology	examples from numerous regions and ecosystems worldwide. Highlights	
	interactions of physical and chemical factors and habitat diversity with the	
	biological components of the world's oceans. Environmental topics such as	

	ficharias marigultura nallution and consequation		
DIOI 4270 Camanal	fisheries, mariculture, pollution and conservation.		
BIOL 4370 - General	3 hours Introduction to the basic principles of toxicology. Focus on		
Toxicology	absorption, distribution, metabolism and elimination of toxicants; target		
	organ toxicity mechanisms of toxic action; carcinogenesis; and risk		
	assessment.		
BIOL 4380 -	3 hours (2;3) Theory and methodologies used by scientists, regulatory		
Fundamentals of	agencies and industry to measure the impact of man's activities on		
Aquatic Toxicology	freshwater aquatic ecosystems. The course has its foundations in history, but		
	concentrates on current methodologies and theories.		
BIOL 4400 - Wetland	4 hours (3;4) Ecology and management of various types of wetlands with		
Ecology and	emphasis on the role of aquatic and wetland plants in determining wetland		
Management	structure and function. Wetland restoration and creation for wildlife habitat		
	or water quality benefits are reviewed.		
BIOL 4440 - Stream	4 hours (3;4) Ecological principles of how stream dynamics influence the		
Ecology	biological and hydrologic patterns and processes occurring in stream		
	ecosystems. Laboratory studies designed to teach techniques and test		
	hypotheses related to environmental assessment.		
BIOL 4650 -	6 hours (3;8) Advanced field course primarily emphasizing the biological,		
Environmental Science	ecological, natural history and philosophical attributes of various habitats or		
Field Course	ecoregions. Topics and field experience may vary from desert river systems to		
	alpine limnology to coastal estuaries.		
BIOL 4720 - Sediment	3 hours Mechanisms of contaminant transport and fate in freshwater marine		
Toxicology	sediments and pollutant effects at the individual, population and biotic		
	community levels. Sediment contaminant bio-availability and		
	bioaccumulation into food webs and the scientific aspects of legal control and		
	remediation of hazardous sediments.		
BIOL 5030 -	1 hour Course lays the foundation for graduate studies in environmental		
Foundations of	science. Introduces graduate students to the faculty, research expertise and		
Environmental Science	resources available in environmental sciences at UNT. Covers topics essential		
	to a successful graduate experience and career in environmental science.		
BIOL 5040 -	1–3 hours Contemporary topics and issues in environmental science and		
Contemporary Topics in	ecology. Topical themes include global climate change, biodiversity, wetlands,		
Environmental Science	population and aquatic, terrestrial or plant ecology.		
and Ecology			
BIOL 5053 -	3 hours In-depth study of the relationship between subantarctic ecosystems		
Subantarctic	and cultures of southern South America including geography, climate,		
Biocultural	ethnography, history and ecology, which exposes students to both the		
Conservation	practical and theoretical aspects of biocultural conservation, including its		
	interdisciplinary character integrating the sciences and humanities.		
BIOL 5054 - Tracing	3 hours Annual in-depth field course that explores subantarctic biota,		
Darwin's Path	geography, history, cultures and ecosystems of the Cape Horn Biosphere		
	Reserve, integrating ecological science and field environmental ethics		
	approaches to the study and conservation of biocultural diversity.		
BIOL 5100 -	3 hours Principles and practices of preparing environmental impact		
Introduction to	assessments and statements. Addresses how to understand the effects that		
Environmental Impact	projects, plans and policies have on the environment and the impact those		
Assessment	effects have on specific resources, ecosystems and human communities.		

	Methods for identifying impacts, describing the affected environment,
	predicting and assessing impacts and selecting the proposed action from a group of alternatives for meeting specific needs will be examined. A detailed
	review of an environmental assessment and environmental impact statement
	are required.
BIOL 5120 -	3 hours Presents a scientific overview of environmental contaminants, their
Environmental	occurrence, sources and impact on humans and the environment.
Chemistry BIOL 5200 -	3 hours Introduction to the environmental determinants of health that
Environmental Health	focuses on health risks of human-mediated changes to the environment, as
	well as the regulatory framework that directs decision making on
	environmental issues. Consideration given to health implications of growing
	populations, available food quantity and quality, loss of habitat and
	biodiversity, radiation, toxins in the environment, sanitation, solid and hazardous waste disposal and environmental degradation including noise, air
	and water pollution.
BIOL 5270 – Limnology	4 hours (2;4;1) Physical, chemical and biological factors that affect
	productivity in reservoirs, lakes and ponds. Field studies using current
	limnological methods and instruments. For biologists, chemists, teachers and sanitarians.
BIOL 5290 - Marine	3 hours Covers the basics of marine biology with a global approach, using
Biology	examples from numerous regions and ecosystems worldwide. Highlights
0,	interactions of physical and chemical factors and habitat diversity with the
	biological components of the world's oceans. Environmental topics such as
	fisheries, mariculture, pollution and conservation.
BIOL 5300 -	3 hours Physiological, behavioral and biochemical adaptations of animals to
Physiological Ecology	environmental limiting factors, including temperature, oxygen, water, salinity, light and toxic chemicals.
BIOL 5370 - General	3 hours Introduction to the basic principles of toxicology. Focus on
Toxicology	absorption, distribution, metabolism and elimination of toxicants; target
	organ toxicity; mechanisms of toxic action; carcinogenesis; and risk
	assessment.
BIOL 5380 - Fundamentals of	3 hours (2;3) Theory and methodologies used by scientists, regulatory
Aquatic Toxicology	agencies and industry to measure the impact of man's activities on freshwater aquatic ecosystems. The course has its foundations in history, but
, iqualic ronicology	concentrates on current methodologies and theories.
BIOL 5400 - Wetland	4 hours (3;4) Ecology and management of various types of wetlands with
Ecology and	emphasis on the role of aquatic and wetland plants in determining wetland
Management	structure and function. Wetland restoration and creation for wildlife habitat
DIOL FAAO. Straam	or water quality benefits are reviewed.
BIOL 5440 - Stream Ecology	4 hours (3;4) Ecological principles of how stream dynamics influence the biological and hydrologic patterns and processes occurring in stream
Leology	ecosystems. Laboratory studies designed to teach techniques and to test
	hypotheses related to environmental assessment.
BIOL 5701 -	3 hours Survey of major advances in biotechnology. Emphasis on the

development of the technology, underlying biological principles, historical context, current practices and societal implication. 3 hours Mechanisms of contaminant transport and fate in freshwater and marine sediments and pollutant effects at the individual, population and biotic community levels. Sediment contaminant bioavailability and bioaccumulation into food webs and the scientific aspects of legal control and remediation of hazardous sediments. BIOL 5880 - Environmental Sciences Seminar Series BIOL 6341 - Advanced Environmental Impact Assessment assessments and impact statements (i.e., was the analysis adequate), as defined by U.S. District, Appeals and Supreme Court decisions. BIOL 6360 - Environmental Engineering by considering technical feasibility and economic constraints. Laboratory exercises provide instruction for quantitative analysis of water and waste water; field trips to various pollution-control facilities. BIOL 6390 - Techniques in Environmental A hours (3;3) Theory and application of advanced analytical chemistry techniques for metals and organics in environmental and biological samples.
BIOL 5720 - Sediment Toxicology 3 hours Mechanisms of contaminant transport and fate in freshwater and marine sediments and pollutant effects at the individual, population and biotic community levels. Sediment contaminant bioavailability and bioaccumulation into food webs and the scientific aspects of legal control and remediation of hazardous sediments. BIOL 5880 - Environmental Sciences Seminar Series BIOL 6341 - Advanced Environmental Impact Assessment Sessment BIOL 6360 - Environmental Environmental Environmental Environmental Environmental Environmental BIOL 6360 - Environmental Envi
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BIOL 6341 - Advanced Environmental Impact Assessment Assessment BIOL 6360 - Environmental Engineering Engineering BIOL 6390 - Techniques in Environmental A hours (3;3) Theory and application of advanced analytical chemistry techniques for metals and organics in environmental and biological samples. 3 hours Advanced topics in preparing environmental impact assessments and statements by examining deficiencies and inadequacies of environmental and biological samples.
statements by examining deficiencies and inadequacies of environmental assessment assessments (i.e., was the analysis adequate), as defined by U.S. District, Appeals and Supreme Court decisions. BIOL 6360 - 4 hours (3;3) Water, land and air pollution control technologies are presented. Engineering approaches to pollution problems are demonstrated by considering technical feasibility and economic constraints. Laboratory exercises provide instruction for quantitative analysis of water and waste water; field trips to various pollution-control facilities. BIOL 6390 - Techniques in Environmental 4 hours (3;3) Theory and application of advanced analytical chemistry techniques for metals and organics in environmental and biological samples.
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Analysis Introduces methods for trace metals analysis and identification, and organics
separation and identification techniques. Laboratory teaches state-of-the-art
spectroscopic and chromatographic techniques.
BIOL 6400 - Ecological 3 hours Detailed treatment of aquatic and terrestrial methods and
Risk Assessment procedures used to assess the ecological hazard of chemicals in the
environment. Emphasizes quantitative methods in testing site assessment,
monitoring procedures, regulatory requirements and field and laboratory
techniques useful to assess damage to aquatic, terrestrial and avian
resources.

ACCT 4420 - International Accounting

3 hours Integrates the functional areas of accounting and demonstrates how accounting relates to the disciplines in the College of Business core. Cross-functional and global approaches to organizational issues are emphasized. Enhances the ability of students to think critically, and to develop knowledge, skills, and attitudes necessary to compete effectively in the global business world. Topics covered include: multinational strategy, global perspectives in accounting, environmental, social and political influences on accounting, accounting information systems in a multinational enterprise, performance evaluation in a multinational enterprise, and the exploration of timely topical issues such as NAFTA, the European Union, and the globalization of securities markets.

ANTH 4400 - Environmental Anthropology

3 hours Focuses on major environmental questions, theories, problems, issues and possible solutions illustrated by case studies from different parts of the world. Examines environmental issues pertaining to land, sea and natural resources; food production systems; deforestation; population problems;

poverty and environmental justice; natural hazards and risks; resource conflicts and warfare; over-fishing; economic development; mineral and oil extraction; landscapes; and biodiversity conservation.

ANTH 5400 - Environmental Anthropology

3 hours Emphasis on theory, major environmental questions, problems, issues, and possible solutions illustrated by case studies from different parts of the world. Examination of environmental issues pertaining to land/sea and natural resources, food production systems, deforestation, population problems, poverty and environmental justice, natural hazards and risks, resource conflicts and warfare, over-fishing, economic development, globalization and transnationalism, mineral and oil extraction, landscapes, biodiversity conservation, the commons, ecofeminism, and valuation of nature. Course goals are to provide a global sample of the literature in environmental anthropology; a survey of concepts, issues, theories, methods and practices in environmental anthropology; and an in-depth acquaintance with a particular topic in environmental anthropology through an individual research project.

CHEM 1360 - Context of Chemistry

3 hours (3;2) Fundamentals of chemistry for students who are not science majors. Applications of chemistry to its role in the world. Topics include historical and philosophical development of modern chemistry, the environment, energy, industrial and economic development, modern materials, popular perspectives of chemistry. Includes laboratory.

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ECON 5440 - Economics of Natural Resources and	3 hour Natural resource management and use: problems of renewable and non-renewable resources, including scarcity and market responses, role of
Environment	_ ,
Environment	property rights, externalities, benefit-cost analysis and energy policy with
	emphasis on Texas. Analysis of environmental problems and policy
	formulation.
EENG 5330 -	3 hours (2;2) Includes foundations and practice of modeling and simulation
Environmental Systems	of ecological and environmental systems; temporal and spatial analysis;
	dynamical systems; and applications of engineering to environmental
	problems.
ENGL 5730 - Literature	3 hours Explores a variety of philosophical, aesthetic and cultural traditions
and the Environment	of representing the natural world and its relation to human societies. In
	addition to literature, readings may extend into natural science,
	environmental philosophy, cultural criticism and artistic theory.
GEOG 5150 - Water	3 hours Topics will be considered from ecology, ground water hydrology and
Resources Seminar	fluvial geomorphology. Special consideration is given to energy flows within
	the watershed, and the economic, political, legal and ecological
	consequences of ground water depletion.
GEOG 5170 - Map-Air	3 hours Evaluation and interpretation of aerial photography and satellite
Photo Analysis and	images. Extraction of quantitative information. Introduction to photographic
Remote Sensing	and computer image processing techniques. Applications in the
	environmental sciences.
GEOG 5400 -	3 hours (2;2) Modeling of environmental processes and human impacts on
Environmental Modeling	the environment to include topics on sensitivity, calibration and evaluation,
	watersheds, non-point source pollution, hydrological models, GIS, water and
	air quality models, pollutant transport and fate, and ecotoxicology.
GEOG 5420 -	3 hours Designed to encourage an awareness of the need for wise use and

Conservation of	proper management of the natural resources on which human welfare
Resources	depends; resources management operates in the framework of laws and
Resources	policies, technical resource knowledge, education, and economics. Requires
	completion of a graduate research project.
GEOG 5600 - Seminar in	3 hours Analysis and evaluation of environmental policy, including spatial,
Environmental Policy	historical, economic, ecological and institutional dimensions of
Living in incident oney	contemporary resource management issues.
GEOG 5650 -	3 hours Geologic aspects of land-use planning; earthquakes, landslides,
Environmental Geology	coastal processes, streams and flooding, soils, groundwater, and waste
Livinoimiental deology	disposal; planning for the future. Requires investigating and reporting on a
	case study in environmental geology.
GEOG 5750 - Fluvial	3 hours Introduction to rivers, fluvial system, empirical and theoretical
Geomorphology	approaches for studying fluvial geomorphology; watershed delineation,
	drainage network analysis, hillslope processes, channel initiation, network
	evolution; catchment hydrology and denudation; mechanics of flow,
	threshold of erosion, sediment transportation and deposition; adjustment of
	channel form; fluvial response to climatic change and impact of human
	activity on fluvial systems. Requires completion of an individual research
	project on a topic in fluvial geomorphology.
GEOG 5850 -	3 hours Topics include principles of groundwater flow; aquifer properties
Introduction to	and characteristics; geology of groundwater occurrence; groundwater
Groundwater Hydrology	development and methods of assessing and remediating ground water
	contamination. Students independently acquire, evaluate and interpret
	hydrogeological data and report the results in a research paper.
MTSE 5580 - Materials	3 hours Properties of renewable and nonrenewable, sustainable and non-
for a Sustainable	sustainable materials; effects of product application and needs on material
Environment	choices for a sustainable environment; degradation mechanisms and
	influence of the environment on mechanisms.
MEEN 5110 - Alternative	3 hours Introduction to the physics, systems and methods of energy
Energy	conversion from non-conventional energy sources, such as solar,
	geothermal, ocean-thermal, biomass, tidal, hydroelectric, wind and wave
	energy. Advantages and disadvantages of alternative energy sources and
	engineering challenges for the harnessing of such forms of energy; energy
	storage; fuel cells.
MEEN 5210 - Solar	3 hours Fundamentals of radiation processes, blackbody and gray-body; and
Energy.	gray-body radiation; solar radiation flat-plate and parabolic collectors;
	concentration optics and practical solar concentration devices; central
	receivers, solar ponds, power cycles of solar plants; thermal storage
DIW FOOD	subsystems and system design.
PHIL 5000 -	3 hours Examines the philosophical origins of environmental philosophy and
Environmental Ethics	the basic positions in the field of environmental ethics. Key authors in
	environmental philosophy are surveyed, as well as topical considerations
	with an emphasis on theories of environmental value, legal and moral rights
	for nature, animal liberation, and Western philosophical and religious traditions.
PHIL 5700 - Seminar in	3 hours Intensive analysis of new positions in environmental ethics with
Environmental Ethics	special emphasis on their theoretical value as a contribution to

	contemporary philosophy and their practical value with regard to	
	environmental policy and decision making.	
PHIL 6710 -	3 hours Examines the merger of feminism with environmental ethics and its	
Ecofeminism: Women's		
Studies and	gender issues and multicultural perspectives within the larger framework o	
Environmental Ethics	ethical and philosophical responses to ecocrises.	
PHIL 6720 - Comparative	3 hours Exploration of resources for environmental philosophy in non-	
Environmental Ethics	Western traditions, focusing on South and East Asian traditions.	
PHIL 6730 - Western	3 hours Historic and contemporary overview of Euro-American religious	
Religion and the	thought concerning the environment, including investigation of the ancient	
Environment	Western religions, Judaism, Christianity and Native American religions.	
PHIL 6740 -	3 hours Investigates the policy turn in environmental philosophy, exploring	
Environmental Ethics	ways to make environmental ethics and environmental philosophy more	
and Public Policy	relevant to decision-makers, public agencies and stakeholders groups.	
PHIL 6750 -	3 hours Examination of the histories, concepts, philosophical implications,	
Environmental Justice	and the struggles of people in shaping the environmental justice movement.	
Livironinientai Justice	Examines the underlying notions of environmental goods and harms, the	
	perspectives of environmental law and policy, and the politics of	
	environmental identities.	
DIII 6760 Tonics in	3 hours Focused examination of the perennial or emerging topics in	
PHIL 6760 - Topics in	, , , , , , , , , , , , , , , , , , , ,	
Environmental	environmental philosophy, such as the intrinsic value of nature, monism	
Philosophy	versus pluralism, ecophenomenology, holism versus individualism, and non-	
	Western explorations of environmental ethics and philosophy.	
PHIL 6780 - Subantarctic	3 hours In-depth study of the relationship between subantarctic ecosystems	
Biocultural Conservation	and cultures of southern South America including geography, climate,	
	ethnography, history and ecology, which exposes students to both the	
	practical and theoretical aspects of biocultural conservation, including its	
	interdisciplinary character integrating the sciences and humanities.	
PADM 5615 -	3 hours Introduction to environmental planning and policy at the federal,	
Environmental Planning	state and local government levels. Designed to help students develop a	
and Hazards	working knowledge of basic planning and policy concepts, methods,	
	institutions and issues. Emphasis is given to the linkage between	
	environmental degradation and vulnerability to hazards.	
PADM 6615 -	3 hours Explores the natural disasters and strategies public officials can	
Environmental Planning	apply to cope with their impacts on the built environment. Natural disasters	
and Hazards	of geologic, atmospheric, hydrologic, and biologic origin are considered. An	
	environmental planning focus is taken where an emphasis is placed on	
	human-environment interactions as they are related to environmental	
	extremes. Alternative public policy strategies for coping with natural hazards	
	are considered from the perspectives of preparedness, response, recovery	
	and mitigation activities.	
JOUR 5290 - Science and	3 hours Explores science and environmental reporting as a valuable	
Environmental Reporting	newsroom specialty blending science, politics, public health and business to	
	encourage public discussion, to educate and to contribute to a public	
	understanding of these challenging problems. Discusses aspects of	
	television, radio and print reporting. Emphasis is on content and storytelling,	
	not basic newswriting.	
	not addit netrottiting.	

PHIL 5010 - Seminar in	3 hours Traces the evolution of ecology from its roots in 19th-century
the Philosophy of	natural history to the present with an emphasis on the prominent paradigms
Ecology	and conceptual trends, such as organicism, community ecology, ecosystem
	ecology, disturbance and flux. Also explores the sociocultural contexts in
	which ecology emerged and now exists, including the so-called second
	scientific revolution and the two-culture split.
PHIL 6650 - Philosophy	3 hours Philosophical examination of water and water issues at the interface
of Water	of science, policy, art and culture. Topics include aesthetics and ontology of
	water, water conflicts, and local and global governance theories.

ECON 4440 - Economics of	3 hours Natural resource management and use: problems of renewable and
Natural Resources and	non-renewable resources, including scarcity and market responses, role of
Environment	property rights, externalities, benefit-cost analysis and energy policy with
	emphasis on Texas, analysis of environmental problems and policy
	formulation.
ENGL 4650 - Literature and	3 hours Explores a variety of philosophical, aesthetic and cultural traditions of
the Environment	representing the natural world and its relation to human societies. In addition
	to literature, readings may extend into natural science, environmental
	philosophy, cultural criticism, and artistic theory.
GEOG 1170 - Culture,	3 hours Exploration of the dynamic relations between culture and environment
Environment and Society	addressing ethnic diversity and conflict, development and underdevelopment,
(GEOG 1302)	settlement patterns, movement of commodities and people (including
(0100 1302)	refugees), and environmental degradation
GEOG 1500 - Geography of	3 hours Introduces students to the field of geography by examining
the DFW Metroplex	geographical dimensions of environmental, social and economic issues in the
	DFW Metroplex. Blends traditional lectures with interactive web-based
	learning exercises using Geographic Information Systems (GIS) software to
	analyze a variety of datasets.
GEOG 3010 - Economic	3 hours Geographic principles applied to understanding regional specialization
Geography	of economic activity. National and international variations in agriculture,
	energy, manufacturing, service activities and commodity flows.
GEOL 4850 - Introduction to	3 hours Topics to include principles of groundwater flow; aquifer properties
Groundwater Hydrology	and characteristics; geology of groundwater occurrence; groundwater
	development and methods for assessing and remediating groundwater
	contamination. Emphasis on application of basic principles.
HLTH 1570 - Environmental	3 hours Role and function of the health educator in maintaining a safe, healthy
Health and Safety	environment; safety procedures in the school and community; psychology of
	accident prevention. Environmental pollution problems and methods of
	control.
HLTH 4350 - Environmental	3 hours The nature and complexity of environmental health issues including
Community Health	specific health problems associated with environmental health. The role of the
·	health educator in an environmental health program.
HNRS 1100 - The Good	3 hours Human beings form social groups to meet their common needs, such
Society	as order and infrastructure. For thousands of years, thoughtful people have
<i>'</i>	asked questions about the nature of these human societies. This course
	·
	explores questions of ongoing interest and importance, including how good societies deal with poverty, illness, education, environmental issues and

	criminal behavior. Human rights, biodiversity and war are also considered.
	Takes an interdisciplinary approach to the study of these topics, and seeks to
	provoke critical thought rather than offer answers.
HMGT 2800 - Foundations of	3 hours Travel and tourism examined from global, industry and developmental
International Travel and	perspectives. Topics include historical, contemporary and future effects of
Tourism	travel and tourism as related to social, economic, cultural and environmental
	issues.
KINE 3350 - Advanced Scuba	3 hours (2;1) Provides students with advanced scuba diving skills, while
Diving, Marine Conservation	developing an understanding of the complex ecosystems found in the marine
and Environmental Crime	environment. Various underwater tasks broaden student awareness of marine
	conservation, the environment, and their capabilities as divers.
LSCM 4560 - Business	3 hours Principles of transportation covering the role of transportation
Transportation Management	systems; environmental and economic impacts; modal components;
	managerial and economic aspects of the various modes, with applications to
	both domestic and international operations.
MTSE 4580 - Materials for a	3 hours Properties of renewable and nonrenewable, sustainable and non-
Sustainable Environment	sustainable materials, effects of product application and needs on material
	choices for a sustainable environment; degradation mechanisms; and influence
	of the environment on mechanisms.
MEEN 4110 - Alternative	3 hours Introduction to the physics, systems and methods of energy conversion
Energy Sources	from non-conventional energy sources, such as solar, geothermal, ocean-
<i>3</i> ,	thermal, biomass, tidal, hydroelectric, wind and wave energy. Advantages and
	disadvantages of alternative energy sources and engineering challenges for the
	harnessing of such forms of energy. Energy storage. Fuel cells.
PHIL 1400 - Contemporary	3 hours Survey of basic ethical theories and exploration of such issues as
Moral Issues (PHIL 2306)	abortion, euthanasia, national security and civil liberties, affirmative action, the
,	death penalty, extramarital sex, pornography, animal rights, world hunger, and
	the environment.
PHIL 2500 - Introduction to	3 hours Explores ethical, ecological and political dimensions of such
Contemporary	international environmental issues as atmospheric and water pollution, global
Environmental Issues	climate change, industrial agriculture, deforestation, biodiversity loss, and the
	relationship between environmental issues and social and political concerns.
PHIL 3700 - Science,	3 hours Examination of the interconnections among science, technology and
Technology and Society	society and the ways they mutually shape one another to the benefit and
	detriment of social life and the environment. Topics include the social values of
	science and technology; technology and social progress; expertise and
	democracy; colonialism; and environmental justice.
PHIL 4053 - Introduction to	3 hours Introduction to the subantarctic ecosystems and culture of southern
Subantarctic Biocultural	South America (geography, climate, ethnography, environmental philosophy
Conservation	and ecology) and exposure to both the practical and theoretical aspects of
	biocultural conservation, including its interdisciplinary character integrating
	the sciences and humanities. Same as BIOL 4053.
PHIL 4450 - Philosophy of	3 hours Traces the development of ecology from its roots in 19th-century
Ecology	natural history through general ecology, restoration ecology, deep ecology and
	social ecology. Examines the central philosophical concepts of biological and
	cultural diversity; the relations between societies and their environments;
	environmental and social problems determined by losses in biocultural
	1 and a decide problems determined by 1000com blockwidth

	diversity; agriculture, land ethics and conservation; non-Western conceptions of nature and society.
PHIL 4700 - Environmental Ethics	3 hours Examination of appropriate human interventions in the natural world. Topics include the history of ideas behind environmental thought, the legal and moral standing of nature, animal rights and welfare, deep ecology, social ecology, environmental justice.
PHIL 4750 - Philosophy and Public Policy	3 hours Explores how recent developments in moral theory, political philosophy, and philosophy of science and technology can clarify issues in public policy. Topics include the nature of government, the justification and limitations of collective action, the instruments of public policy, democracy and the economy, social costs and benefits, science and technology policy, computers and information policy, food and water policy, and environmental and development policy.
PSYC 3700 - Ecological Psychology	3 hours Effects of changing ecological conditions, such as the increased use of chemicals, the processing of foods, and the contamination of water and air on human behavior.
RECR 2550 - Leisure: Human Diversity and the Environment	3 hours Comprehensive overview of the role of leisure in contemporary society. Sociological, economic, psychological and environmental implications of leisure are explored with diverse groups. Societal and lifestyle changes are discussed with a multicultural focus and in relation to their impact on the future of leisure. Personal leisure lifestyles are reviewed and discussed.
GEOG 4420 - Conservation and Resource Management	3 hours Addresses issues associated with conservation and management of natural resources. Includes case studies in a variety of geographical scales: global, regional and especially local. Explores sustainability and its role in fostering responsible conservation and resource management.
GEOG 3500 - Introduction to Geographic Information Systems	3 hours (1;0;2*) Introduces the concepts and applications of computer-based spatial data handling, known as geographic information systems (GIS) technology. Illustrates the essential methods of GIS and its applications in fields including geography, business, administration, planning and environmental science. Students gain application skills via a series of practical exercises illustrating problem-solving strategies using up-to-date GIS software packages

SMHM 5520 - Global Tourism Systems	3 hours In-depth analysis of the global travel and
	tourism industries from a systems perspective.
	Models of tourism system used as methodological
	tools to understand this complex global industry.
	Topics include historical, contemporary and future
	effects of travel and tourism as related to social,
	economic, cultural and environmental issues.
SMHM 5530 - International Sustainable Tourism	3 hours Examines the philosophy, concepts and
	attitudes prevalent in practices of sustainable
	tourism in global destinations. Emphasizes the
	social/cultural, environmental and economic
	elements of sustainable tourism development. The

	variety of ways sustainable tourism activities are organized internationally and best practices are explored.
SMHM 5531 - Sustainable Natural Resource Management	3 hours Examines the fundamental changes affecting the world that impact institutions and attitudes toward more sustainable natural resource management. Problems with the depletion of the ozone layer, global warming, deforestation, species decimation, coastal erosion, wetlands protection, acid rain, water pollution, solid and hazardous waste disposal, toxic air emissions, and other environmental problems of similar magnitude require changes in industry. Case study analysis and problem solving.
SMHM 5532 - Context and Challenges of Applied Sustainable Tourism Development	3 hours Explores the environment's dilutive capacity and its importance to sustainable tourism. Examines factors critical to the sustainable tourism industry such as concentration of visitors, rising affluence, technological change, and increased expectations. Social responsibility, cultural assessment, and community participation principles for applied sustainable tourism development are considered in case studies and field excursions. Intervention strategies for sustainable tourism development are presented as a compelling case for an effective private–public partnership for development of sustainable tourism.
SMHM 5533 - Environmental Policies in a Changing World	3 hours Comprehensive overview of the theory and application of environmental policy. Policy instruments for environmental and natural resource management are explored in an industry-based context. Explores Costa Rica's national strategy for sustainable development and its policy implications for the sustainable tourism industry. Focuses on the selection and design of policy instruments for preserving the environment and/or reducing impact from tourism projects and programs.
SMHM 5534 - Seminars in Sustainable Tourism: Experiences of Successful Practitioners in Costa Rica	3 hours Examines the complexity of evaluating sustainability and the need for evaluation from various perspectives. Outlines the dilemmas that may be present in sustainable tourism projects, represented as competing values from the practitioner's point of view. Experiences of successful and not-so-successful practitioners of sustainable tourism are analyzed for the best practices in operational management, customer satisfaction, business planning, and promotionmarketing. Recognizes the importance of scale

	when evaluating sustainability. Covers both small-
	and large-scale tourism projects.
SMHM 5535 - Quantitative and Qualitative Analyses	3 hours Provides the tools and methods required
in Sustainable Tourism	for collecting, interpreting, analyzing and reporting
	quantitative and qualitative data. Uses quantitative
	and qualitative tools with a wide range of
	applications in the fields of sustainable tourism and
	environmental science. Focuses on research in rural
	communities.
SMHM 5650 - Global Merchandising	3 hours Critical analysis of merchandising
	principles and practices in a global context with
	emphasis on economic, political, environmental,
	cultural and social issues; geographic distribution;
	trade theory; trade data; and technological
	developments. Contrast the global dominance of
	textile, apparel and home furnishings industries on
	world trade and on consumer-driven markets by
	country and geo-political regions.