## Sustainability in the Curriculum (Graduate and Undergraduate Courses)

				Pending?	Related or Focused?	Professor/Dept Contact	When Offered	Comments
ANTHR	OPOLOG	Y			. 304304:	Januare		
ANTH	208	Anthropology of Globalization and Development	Examine cross-cultural definitions and experiences of globalization and development, through topics including colonial legacies of inequality, migration, land use, economic restructuring, media, consumption, tourism, health, and participatory development.		related	Ann Kingsolver	maybe spring 2012	
ANTH	212	Food and Culture (3)	Biological and cultural interactions in the development of human diets.		related	Ann Kingsolver		
ANTH	213	Ethnobotany: Plants and Peoples (3)	Anthropological overview of past and present uses of plants by people around the world; food, medicine, dyes, smoking, fibers, fuels, construction, beverages, spices.		related	Ann Kingsolver		
ANTH	317	North American Indians (3)	N/A		related	Ann Kingsolver		
ANTH	513	Anthropological Ethnobotany (3)	Survey of how each anthropological subfield studies the interrelationships between plants and peoples. Application of methods, including interviewing and data analysis.		related	Ann Kingsolver		
ANTH	525	Ethnoecology (3)	Ethnoecology: the way in which people understand and participate in human-plant-animal-natural interactions. The course is organized into five broad frameworks: native viewpoints, ecoliteracy, folk taxonomy, cultural and biological diversity, and ecosystem management. Students learn how to conduct interviews and participate in two projects, Botanical Knowledge (students need no botanical experience), and Cultural and Biological Diversity in the Carolinas. Taught every other Fall semester, alternating with ANTH 213/513		focused	Ann Kingsolver		
ANTH	551	Medical Anthropology: Fieldwork	Application of observation techniques, field notes, informant interviewing, and secondary data analysis to interpreting differential perceptions of health problem solving in the community and clinic.		related	Ann Kingsolver		
ANTH	568	Nutritional Anthropology (3)	Nutritional problems in developing nations. Measures of nutritional status. Social, economic, and environmental aspects of food consumption and nutrition. Biocultural responses to food deprivation and undernutrition.		related	Ann Kingsolver		
ANTH	569	Environment and Development {=GEOG 569} (3)	Examination of development theory and environmental implications of social and economic change. Study of general theoretical perspectives will be balanced with case study materials.		focused	Ann Kingsolver		
ANTH	581	Globalization and Cultural Questions (3)	This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identity, social movements, and the environment.		related	Ann Kingsolver		
ANTH		Seminar in Environmental Anthropology and Development (3)	Findings of ecological and economic anthropology applied to problems of contemporary development. Emphasis on less developed countries.		related	Ann Kingsolver aekingso@mailbox.	sc.edu	
BIOLOG	GY							
BIOL	301	Ecology and Evolution (3)	Concepts of evolution, populations and population interactions; communities and ecosystems. Three lecture hours per week		related	Bob Friedman bobf@biol.sc.edu		
			Ethnoecology: the way in which people understand and participate in					

BIOL	301L	Ecology and Evolution Lab (1)	human-plant-animal-natural interactions. The course is organized into five broad frameworks: native viewpoints, ecoliteracy, folk taxonomy, cultural and biological diversity, and ecosystem management		н	п		
BIOL	450	Principles of Biological Oceanography {=MSCI 450}	Principles and methods of measuring production in the sea. Emphasis on the ocean's role in the global carbon budget.		related	Tammi Richardson		
BIOL	526	Fall Flora (4)	N/A		focused?	Nelson		
BIOL	527	Spring Flora (4)	N/A		focused?	Nelson		
BIOL	528	The Summer Flora (4)	N/A		focused?	Nelson		
BIOL	543	Comparative Physiology	A study of phylogeny of physiological systems and functional mechanisms involved in the maintenance of life in zoological forms.		related	Brian Helmuth		
BIOL	570	Principles of Ecology (3)	Interactions of organisms and the environment; ecosystem structure and functions. Three lecture hours per week.		related	David Wethey	every semester	
BIOL	641	Biophysical Ecology (3)	This course examines how the mechanisms by which animals and plants interact with their physical environments influence organismal physiology.		related	Brian Helmuth	not currently, but hopefully in future	
BIOL	671	Plant Responses to the Environment (3)	This course deals with plant induced responses to both abiotic and biotic environmental stress. Lecture on stratospheric ozone depletion and ultraviolet-B radiation, another lecture on global warming effects on plants, one on global change in the use of our planet with respect to population growth, agricultural production, loss of arable land, erosion etc., and a lecture on plant breeding for more sustainable agriculture world wide, including bioengineering.		related	Johannes Stratmann johstrat@biol.sc.ec	fu	
BIOL	750	Advanced Biological Oceanography {=MSCI 750}	N/A		related	Tammi Richardson		
BIOL	763	Population Biology/ Mathematical Population Biology/ Proseminar in Mathematical Biology {=MATH523/SCCC411B}	N/A		related	David Wethey		
BIOL	765	Theoretical Ecology (3)	Theoretical bases of ecology are explored from current literature with topics from organismal, populational, community, and ecosystem approaches. Principles for the construction and testing of hypotheses and models.		related	David Wethey wethey@biol.sc. edu		
BIOSTA	TISTICS							
BIOS	808	Envirometrics (3) {=STAT 708}	Statistical methods for environmental and ecological sciences, including nonlinear regression, generalized linear models, spatial analyses/kriging, temporal analyses, meta-analysis, quantitative risk assessment.		focused	Don Edwards		
BIOS	809	Envirometrics II {=STAT 709}	Theoretical underpinnings of environmetrics. Spatial statistics, temporal and longitudinal analysis, hierarchical modeling, and Bayesian inferences for environmental data.		focused	Don Edwards edwards@stat.sc.ee	du	
Biomedi	cal Engine	ering						
BMEN	271	Introduction to Biomaterials	Synthesis and characterization of polymers, ceramics, gels, hydrogels, rubbers, metals, and peptides; fabrication of implants with biomaterials; methods of surface treatment; immobilization of biomolecules; fabrication of scaffolds for cell seeding; tissues, extracellular matrix, cell-biomaterial interactions; biological testing of biomaterials; blood-biomaterials interactions; degradation of materials in biological environment.	pending	related	James Blanchette blanchej@engr.sc.edu 803-777-1541	Spring 10 Spring 11	
BUSINE	SS							
BADM	590X	Sustainability Projects Course	Sustainability 590X is designed to create an environment where students can research, develop and implement sustainability projects throughout the campus and community. The course will consist of projects where student teams work with clients to establish working relationships in a consulting project environment. By the end of this course, students will be able to execute a real, sustainable project with defined deliverables and gain practical experience of working		focused	Tom Syfert	spring	

		l	together as a team.		ĺ			
			together as a team.					
			Evolving forces behind globalization, with primary emphasis on					
DMSB	722	Globalization and Corporate Responsibility (1-5)	corporate responsibility.		focused	Robert Rolfe	fall (IMBA Core)	
DMSB	723	Leadership Skills and Ethical Leader Behavior (1-5)	Development and assessment of leadership skills in organizations, including ethical leader decision making.		focused	Andy Spicer	fall (IMBA Core)	
IBUS	425	Competitive Strategies in Developing Countries (3)	Strategies multinational companies use to compete in developing countries. Topics include management of political risk, impact of culture, and corporate responsibility and ethics.		related	Robert Rolfe rolfer@moore.sc.ed	spring	
IBUS	738	International Business and Sustainable Enterprise (3)	An introduction to international environmental and social management issues that affect an organization's sustainable development initiatives.		focused	Phil Barnes pbarnes@environ.s	sc.edu	
MGMT	407	Corporate Social Responsibility and Stakeholder Mangement (3)	This course examines the role of corporate social responsibility in managing organizations. Attention is given to the role of stakeholder management and ethics in organizational decision-making.		focused	Andy Spicer aspicer@moore.sc.	edu	
MGSC	487	Global Sourcing Strategies and Application (3)	Course covers skills necessary to pursue sourcing-related careers in manufacturing, services, retailing, and government agencies, including discussion of cutting-edge negotiation and global sourcing strategies pursued in exemplar firms.		related	Andy Spicer		
MGSC	871	Global Sourcing: Strategies and Applications	This course covers skills necessary to pursue sourcing and related careers in manufacturing, services, retailing, and government agencies, including discussion of cutting-edge negotiation and sourcing strategies pursued by exemplar firms.		related	Andy Spicer		
MKTG	350	Principles of Marketing (3) {501 Honors]	Principles and concepts underlying marketing functions, including the conception, pricing, promotion, and distribution of products and services and the role of marketing in society.		related	Crockett	fall	
MKTG	705	Marketing Communcations (3)	Advertising, sales promotions, marketing-oriented public relations, event and sponsorship marketing, point-of-purchase communications, and other aspects of integrated marketing communications.		related	Crockett	spring 2010, fall 2011	
MKTG	704	Consumer Behavior	Concepts, theories, and techniques applicable to obtaining a sophisticated understanding of consumer motives, attitudes, decision-making processes, and satisfaction determinants.		related	Tom Kramer thomas.kramer@m	spring	
CHEMIS	STRY							
СНЕМ	105	Chemistry and Modern Society I	A conceptual and qualitative approach to chemistry, its evolution, achievements, and goals and its impact on technology, the environment, and modern life and thought. (Specifically designed for non-science majors.)	pending	related	Daniel Freeman freeman@chem.sc.ed 803-777-8899	Spring 10 Fall 10 Spring 11	
CHEM	106	Chemistry and Modern Man II	A continuation of CHEM 105	pending	related			
CHEM	321	Quantitative Analysis (3)	Gravimetric, volumetric, and introductory instrumental analysis. Three lecture and one recitation hours per week.		related	John Ferry		
СНЕМ	333	Organic Chemistry (3)	Contemporary theories, nomenclature, reactions, mechanisms, and syntheses of carbon compounds. Required for chemistry majors.		related	John Ferry		
СНЕМ	334	Organic Chemistry (3)	Continuation of CHEM 333. Required for chemistry majors.		related	John Ferry		
СНЕМ	623	Introductory Environmental Chemistry (3)	Study of the chemical reactions and processes that affect the fate and transport of organic chemicals in the environment.		focused	John Ferry		
CHEM	624	Aquatic Chemistry	Study of the chemical reactions and processes affecting the distribution of chemical species in natural systems.		focused	John Ferry ferry@chem.sc.edu		
CHEMIC	CAL ENG	INEERING						
			Reliability, availability, and fault-tree analyses, risk indices, hazard			Vincent Van Brunt		
ı		ı	1					•

ECHE	567	Process Safety, Health, and Loss Prevention (3)	evaluation, vapor cloud modeling, toxicology, material safety classification and regulations, individual/corporate ethical responsibilities.	pending-	related	vanbrunt@engr.sc.ed 803-777-3115	luspring spring 11	
CIVIL E	ENGINEE	RING				joe flora, nicole berge, Steve McAnally		
ECIV	303	Civil Engineering Materials (3)	Mechanical and thermal properties of mineral aggregates, cements, concrete, timber, asphalt, metals, and plastics.		related	Charles Pierce	every fall semester	recycled content in constructio materials.
ECIV	350	Introduction to Environmental Engineering (3)	Concepts of environmental engineering, including air and water pollution, solid and hazardous waste disposal, and noise pollution. Qualitative and quantitative development of engineering techniques for pollution control.		related	Charles Pierce	every semester	
ECIV	405	Systems Apps in Civil Engineering (3)	Systems approach to analysis and design; application of engineering economic principles to the evaluation of design alternatives; deterministic modeling and optimization emphasizing civil engineering applications.		related	Charles Pierce	every semester	
ECIV	470	Civil Engineering Design (4)	Application of hydraulic, geotechnical, and structural principles in design; project scheduling; cost estimation; ethics; environmental and social impact; design drawings; report documents.		related	Charles Pierce	every semester	Low Impact Developmen (LID) and Standard of Care is introduced
ECIV	490	Nanotechnology in Global Context (3)			focused	Charles Pierce	new course - once per year	mirodacea
ECIV	499	Undergraduate Research in Civil and Environmental Engineering (1-3)	Research experience for undergraduates on current topics in civil and environmental engineering.	1	dependent on instructor and student(s)	Charles Pierce	every semester	
ECIV	533	Geosynthetics and Geotechnical Design of Landfills (3)	Principles for the design, construction, and performance of waste containment systems. Characterization of barrier materials; geosynthetics; design of liner and leachate collection systems; stability and deformation analyses of landfills.		related	Charles Pierce	multi-semester rotation	
ECIV	555	Principles of Municipal Solid Waste Engineering (3)	Fundamentals and engineering principles of solid waste generation, characterization, collection and transport, source reduction and recycling, and physical, chemical, and biological treatment strategies.		related	Charles Pierce	every 1.5 years	
ECIV	557	Sustainable Construction for Engineers (3)	Instruction to sustainable engineering design alternatives and principles for construction and site development from preconstruction through design and the construction phase	1	focused	Charles Pierce		
ECIV	562	Engineering Hydrology (3)	Applications of hydrologic techniques to design problems; stormwate simulation models; urban stormwater.	er	related	Charles Pierce	Low Impact Development (LID) is being gradually introduced.	
ECIV	570	Land Development for Engineers (3)	Fundamentals of designing and permitting the conversion of land to new or altered states, including environmental issues, traffic and parking, utility resources, site engineering, ADA, safety, planning, and zoning requirements.		related	Charles Pierce		
ECIV	751	Water and Wastewater Treatment Theory I (3)	Physical and chemical water and wastewater treatment processes.  Topics include mixing, coagulation, sedimentation, filtration, oxidation, absorption, and ion exchange.		related	Charles Pierce	once every 3 semesters (Spring 2009 and Fall 2010)	
ECIV	755	Industrial Wastewater Treatment (3)	Industrial sources, characteristics, and treatment plant design.		related	Charles Pierce	once every 3 semesters (Spring 2011)	
ECIV	762	Advanced Hydrology (3)	Advanced theories and techniques used in stormwater modeling; kinematic hydrology; soil physics infiltration; deterministic and		related	Charles Pierce	once every 3 semesters	

			parametric stormwater models; stochastic methods.					
ECIV		Seminar in Civil and Environmental Engineering (1)	Seminar on current topics in civil and environmental engineering. Includes oral presentations by students on their research projects.		dependent on seminar organizer	Charles Pierce	every semester	
COMPU'	TER SYS	TEMS/ENGINEERING						
CSCE	206	Scientific Applications Programming (3)	Introduction to computer applications in science and engineering.  Programming exercises in a high-level language.	pending-	NO	A Kumar kumara@email.sc.ed I Rouf (fall 10-not listed)	spring 10 fall 10 spring 11	
CSCE	567	Vizualization Tools (3)	Scientific visualization tools as applied to sampled and generated data; methods for data manipulation and representation; investigation of visualization techniques.	pending-	NO	?	not in fall 10 or spring 11	
ECONO	MICS							
ECON	505	International Development Economics (3)	Economic theories of growth in developing countries. Use of factor resources; role of social and economic institutions; use of financial trade policies for growth.		related	John McDermott		
ECON	508	Law and Economics (3)	Economic analysis and interpretation of the law. The economic effect of current law and optimal design of law to meet social objectives.		related	John McDermott		
ECON	548	Environmental Economics (3)	An analysis of the economic aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.		focused	John McDermott		
ECON	589D	Sustainable Economic Development (3)	In economics, sustainability is defined at providing the typical person alive in the future with a standard of living, both material and environmental welfare, at least as high as that enjoyed by the typical person today (Pezzey 1992). This includes our responsibility to control emissions of stock pollutants and manage the planet's natural resources so as to provide future generations with a high quality of life, without sacrificing too much of our materialistic standard of living. Achieving sustainable economic development is not as easy because material growth often comes at the expense of environmental quality. Economic analysis will be used to cover some of the major topics below: How do we measure sustainability? How much pollution is too much? Is the government up to the job? How can we do better? Resolving Global Issues		focused	John McDermott uscera@mailbox.sc	edu	
Electrica ELCT		Renewable Energy Technologies: Photovoltaic Devices at Systems (3)	Introduction to renewable energy technologies and sustainable energy sources with emphasis on principles of solar photovoltaic devices and systems. Devices and systems for practical applications and costbenefit analysis.		related	MANDAL K	spring	
Mechanic	cal Engine	eering						
ЕМСН	427	Mechanical Design I (3)	Lecture topics include design specifications and planning, innovation, economic factors, safety, reliability, ethics and social impact. Selection, specification, and feasibility study of an open-ended design project to be completed in EMCH 428.		related	Jeff Morehouse	every semester	
ЕМСН	428	Mechanical Design II (3)	Synthesis, analysis, construction, testing, and evaluation of the design begun in EMCH 427. Consideration of economics, safety, reliability, and social impact.		related	Jeff Morehouse	every semester	
ЕМСН	441	Fundamentals of Automotive Systems (3)	Engineering fundamentals of current and future automotive systems and concepts, including internal combustion, electric, and hybrid power systems.		related	Jeff Morehouse	every 3rd semester	
ЕМСН	529	Sustainable Design and Development (3)	System design and development accomplished with consideration of environmental/ecological, economic and social constraints.  Introduction to sustainable design including a design project.		focused	Jeff Morehouse	every 3rd semester	

ı		I	1	İ	I	l		
ЕМСН	551	Nuclear Energy in the Hydrogen Economy (3)	The current role of nuclear energy in the US and global energy mix will be described and the potential for future growth will be surveyed, particularly in the development of the hydrogen economy.		related	Jeff Morehouse	every 3rd semester	
ЕМСН	558	Introduction to Nuclear Reactor Systems (3)	The engineering design and operation of nuclear power plants, covering current and future nuclear power cycles, including sustainable fuel sources and waste handling concepts.		related	Jeff Morehouse	eff Morehouse spring	
ЕМСН	576	Fundamentals and Applications of Fuel Cells (3)	Study of fuel cell principles, fuel cell characterization, characteristics of the major types of fuel cells, fuel cell and stack components, fuel cell stack and system design, fuel cell applications in portable, transportation, and stationary areas, as well as the current status and future research focus of fuel cells.		related	Jeff Morehouse every 3rd semester		
EMCH	594	Solar Heating (3)	The engineering design elements of solar thermal and solar electric systems, for buildings and for large power production.		related	Jeff Morehouse more@cec.sc.edu	every 3rd semester	
ENGINE	ERING		•					
ENCP	540	Environmentally Conscious Manufacturing (3)	Design for the environment; life cycle analysis; environmental economics and global competitiveness; legal and regulatory affairs; and management of technological change. Interdisciplinary collaboration of engineering, science, math, and business majors.	pending-		Nicole Berge, Robert Mullen		
ENGLIS	Н							
ENGL	434	Environmental Literature (3)	Literature of the natural environment and of human interactions with nature, along with critical theories about human/nature interactions.		Focused	Laura Walls		
ENVIRO	NMENT A	AL HEALTH SCIENCE						
ENHS	221	Environmental Pollution and Health {=ENVR 221} (3)	A survey of pollution (chemical, biological, physical) effects on environmental quality and public health with emphases on how each pollutant class behaves and affects individual and community health over acute to chronic exposure periods.		related	Virginia Shervette shervette@sc.edu 803-777-3967	spring 10 fall 10 spring 11	
ENHS	333	Sanitation and Environmental Health (3) {=HPEB 333}	Principles of general sanitation and the scientific bases for their control and correction. New problems in today's environment; prospects for the future. Factors affecting pollution levels as they relate to human existence.	pending-	related			
ENHS	660	Concepts of Environmental Health Science (3)	Environmental health sciences presenting the earth as a complex system in which people, plants, animals, and non-living physical-chemical components interact.		focused	g scott	summer/fall	
ENHS	665	Biofilms in Environmental Health and Disease (3)	Effect of bacterial biofilm process on many diverse areas.  Recognition, prevention, and control of biofilm-related problems in the environment, health care, industry, and engineering.		related	decho	spring 10	
ENHS	670	Environmental Pollutants and Human Health (3)	Overview of environmental pollutants and their impact on human health; case studies of environmental catastrophes; principles of ecotoxicology; air, water, and land pollution associated with neurotoxicity, toxicology, and carcinogenesis.	pending-	focused	Charles Fiegley cfeigle@mailbox.sc.e 803-777-6360	spring 10 spring 11	
ENHS	760	Fundamentals of Air Pollution (3)	Chemical and physical aspects of air pollution and their regulatory problems. An examination of air pollution sources; physical and chemical processes affecting pollutants after emission; pollutants and their effects and the ultimate fate of pollutants. Attention is also given to the legal, administrative, and technical aspects of air pollution control.	pending-	related	Charles Fiegley cfeigle@mailbox.sc.e 803-777-6360		
ENHS	761	Ecotoxicology of Aquatic Systems (3)	Lethal and sublethal effects of environmental stressors on organisms living in the water column and in sediments of aquatic systems. Practical techniques of aquatic toxicology, risk assessment and modeling.	pending-	related	David Volz volz@mailbox.sc.edi 803-777-0218	spring 10 spring 11	

ENHS	762	Fundamentals of Industrial Hygiene (3)	Industrial hygiene, including health effects, occupational health standards, and the evaluation and control of occupational health	pending-	NO	r bennett		
ENHS	764	Industrial Hygiene Evaluation (3)	hazards.  An introduction to the evaluation of occupational exposures to hazardous materials found in the work place through utilization of appropriate sampling and measuring techniques.	pending-	NO	Charles Fiegley cfeigle@mailbox.sc.e 803-777-6360	spring	
ENHS	765	Applied Research in the Environmental Health Sciences (3)	Current and prospective research associated with the multi- disciplinary areas of environmental health sciences. Critical evaluation of scientific research, and technical writing and oral presentations	pending-	related	Virginia Shervette shervette@sc.edu 803-777-3967	fall 10 spring 11	
ENHS	766	Applied Aquatic Sciences (3)	The course is designed to address current and emerging issues in water sciences and management in three modules. The first module addresses water chemistry, biology and microbiology. The second module studies hydrology, stream ecology and lake ecology. The third module applies the knowledge gained from the first two modules to look at water quality management through the TMDL process.	pending-	related	r kloot (not in database)	spring 10 spring 11	
ENHS	766L	Applied Aquatic Sciences Laboratory (1)	Sampling and analysis of the interacting parameters used in assessing water quality and the functioning of aquatic systems.	pending-	related			
ENHS	767	Ecological Modeling and Environmental Planning (4) {= MSCI 767}	Concepts in systems ecology and ecological modeling. Emphasis on the use of models and computer simulations in examining environmental interactions, predicting environmental impact, and facilitating the process of environmental planning. Lab practice in model development and computer simulation analysis.	pending-	focused			
ENHS	768	Industrial Ventilation and Hazard Control (3)	Control of chemical and physical hazards in the occupational environment. Course covers principles and design of health protection systems such as ventilation systems, collection mechanisms, control of physical factors (excluding radioactivity).	pending-	related	Charles Fiegley cfeigle@mailbox.sc.e 803-777-6360		
ENHS	769	Exposure and Risk Assessment (3)	Designing, implementing, and analyzing environmental exposures in the field; error analysis; computation of the value of improved information; hazard identification; dose-response evaluation; and risk characterization.	pending-	related			
ENHS	770	Microbial Processes and Pollution (3)	Microbial processes which alter the fate, bioavailability, and toxicity of environmental pollutants: biotransformations of metals and organic pollutants; resistance mechanisms and roles of microbial biofilms in toxin transfer.	pending-	related			
ENHS	774	Risk Assessment and Interactions of Environmental Toxicants (3)	A study of biological interactions and transformation of environmental toxicants at the cellular and subcellular levels, and assessment of cellular damage as it relates to health hazards and risks Topics to include: environmental toxicants; exposure measurements; factors affecting interactions and toxicity; metabolism of xenobiotics: types and levels of effects and interactions; and human health risks.	pending-	related	<del>Tara Sabo-</del> AttwoodSean Norman?	fall 10	
ENHS	775	Resource Management and Environmental Impact Assessment (3)	Review of ecological principles as applied to environmental impact assessment. Study of the mandates of the National Environmental Policy Act of 1969. Analysis of several impact assessment methodologies.	pending-	focused	Dwayne Porter porter@sc.edu 803- 774-4615	spring 10 spring 11	
ENHS	776	Environmental Regulation and Planning (3)	Survey of major federal environmental legislation. Review of processes and techniques of environmental planning including zoning permits, management plans, assessments, and evaluation methods. Case studies of significant environmental projects.	pending-	focused			
			Sources, sinks, transport, and transformation of air pollutants. Health					

ENHS	778	Air Pollution Monitoring and Modeling (3)	effects that occur directly or by intermediate transport. Current monitoring methods and modeling techniques for air pollution.	pending-	related			
ENHS	779	Applied Environmental Physiology (4)	Lecture and laboratory investigations concerning sublethal and lethal physiological responses of aquatic organisms to a variety of environmental pollutants. Stresses the in-depth understanding of the effects of: bacterial and thermal pollution, pesticides/herbicides, industrial chemicals, hazardous materials, and petroleum hydrocarbons on different physiological mechanisms.	pending-	related			
ENHS	780	Advanced Seminar in Environmental Modeling (1-2)	A critical review of recent advances and case histories in the formulation and use of ecological/ environmental models. Ecosystems analysis and environmental planning.	pending-	focused			
ENHS	787	Analytical Concepts for Environmental Health Sciences (3)	Physical and chemical principles of environmental qualitative and quantitative analysis with emphasis on atmospheric, aquatic, and terrestrial samples. Includes use and limitations of instrumental techniques, sampling strategies, data management and reduction, and quality assurance programs.		related	decho		
ENHS	788	Concepts of Hazardous Materials Management I (3)	Physical and chemical principles of environmental qualitative and quantitative analysis with emphasis on atmospheric, aquatic, and terrestrial samples. Includes use and limitations of instrumental techniques, sampling strategies, data management and reduction, and quality assurance programs.	pending-	related			
ENHS	789	Concepts of Hazardous Materials Management II (3)	Chemical and physical properties of hazardous materials; use and storage; disposal options; transportation requirements; site safety considerations; management systems involving hazardous materials.	pending-	related			
ENHS	790	Environmental Sanitation (3) {=ENHS 490?}	Addresses public health aspects of water, food, & sewerage sanitation including sewerage treatment plants, septic tanks, drinking water, food, confined animal feeding operations, cruise ships, pools/spas/hot tubs and international sanitation during natural or man-made emergencies. Env. sustainability is covered as sustainability affects availability, security and safety of food and water supplies		related	R Norman	Spring 2011 (1st time)	
ENHS	795	Issues in Coastal Environmental Health (3)	Problems associated with coastal population growth and development. Emphasis is on the working group approach to ameliorating impacts on ecosystem and human health.	pending-	related			
ENHS	860	Environmental Radiation Surveillance (4)	Technical coverage relevant to a practical evaluation of radiation sources and contaminants in the environment	pending-	related			
ENHS	861	Aerosol Science (3)	and Commission in the Chitichheat	pending-	related	feigley		
ENHS	863	Advanced Topics in Environmental Planning (3)	Detailed analyses of techniques, especially computer simulation modeling, used in environmental assessment and planning. Emphasis will be on the prediction of the ecological effects of development projects. Students will collectively construct a simulation model for the purpose of environmental assessment.	pending-	focused			
ENVIRO	NMENTA	AL SCIENCE						
ENVR	101	Introduction to the Environment (3)	Analysis of environmental issues and the role of science in their identification and resolution.		related	Madilyn Fletcher fletcher@sc.edu		
ENVR	121	Green Explorations {=POLI 121} (3)	Interdisciplinary seminar combining the intellectual exploration of ecological perspectives with the physical exploration of the local environment. First-year students only.		focused	Madilyn Fletcher		
ENVR	122	Green Engagements {=POLI 122} (3	Interdisciplinary seminar on designing, researching, and implementing collaborative projects to promote ecological sustainability. First-year students only.		focused	Madilyn Fletcher		

			Course provides a general review of plants, animals, and geological features of South Carolina, with an emphasis on connections in the			
ENVR	200	Natural History of South Carolina (4)	natural world (3 lecture hours and 3 lab hours per week).	related	Madilyn Fletcher	
ENVR	201	Introduction to Environmental Studies I (4)	Introduction to interdisciplinary and multidisciplinary perspectives on environmental issues. Required for environmental science majors. Integrative case studies address ways of understanding nature.	related	Madilyn Fletcher	
ENVR	202	Introduction to Environmental Studies II (4)	Continuing inter- and multi-disciplinary exploration of relations between environment and society for environmental science majors. Case studies raise issues, challenges, and strategies to achieving sustainability.	related	Madilyn Fletcher	
ENVR	221	Environmental Pollution and Health {=ENHS 221} (3)	A survey of pollution (chemical, biological, physical) effects on environmental quality and public health with emphases on how each pollutant class behaves and affects individual and community health over acute to chronic exposure periods.	related	Madilyn Fletcher/Virginia Shervette	
ENVR	500	Environmental Practicum (3)	Multidisciplinary research projects related to university or community environmental issues (e.g., energy, water conservation, solid waste, recycling)	N/A- Madilyn said leave off since changes profs/topics so often	Madilyn Fletcher	
ENVR	501	Special Topics in the Environment (3)	An in-depth analysis course of a specific interdisciplinary environmental topic. Course content varies and will be announced in the schedule of classes by suffix and title.	focused	Madilyn Fletcher	
ENVR	548	Environmental Economics {=ECON 548} (3)	An analysis of the economics aspects of environmental decay, pollution control, and natural resource use. Analysis of the ability of the market system to allocate resources efficiently when economic activity is accompanied by environmental damage. Discussion of alternative public policy approaches to pollution control and natural resource conservation.	related	Madilyn Fletcher	
ENVR	572	Freshwater Ecology {=BIOL 572} (3)	Quantitative study of the population, community, and evolutionary ecology of freshwater habitats (lakes, ponds, rivers, streams, wetlands). Includes mandatory field trips.	related	Madilyn Fletcher	
ENVR	590	Environmental Issues Seminar (3)	Collaborative study of a contemporary environmental issue. Field trips required. Restricted to: ENVR majors or special permission of department.	focused	Madilyn Fletcher	
ENVR	700	Current Topics in Environmental Studies (3)	Current issues, policies, and regulations pertaining to environmental studies. Emphasizes integrated multidisciplinary approaches toward identification, evaluation, preservation, mitigation, and/or utilization of environmentally sensitive material and sites.	related	Madilyn Fletcher	
ENVR	725	International Environmental Management Systems (3)	International environmental management systems standards will be integrated with business planning to provide students with the best strategies for future growth in today's environmentally sensitive global economy.	focused	Madilyn Fletcher	
ENVR	800	Seminar in Environmental Studies (3) {=PHIL 800}	Examination of the effectiveness of environmental policies and methods relative to current issues and needs.	related	Madilyn Fletcher	
ENVR	835	Seminar in Environmental Ethics (3) {=PHIL 835}	Examination of the intellectual, cultural, and ethical frameworks within which environmental problems arise and are solved.	related	Madilyn Fletcher	
EPIDEM	HOLOGY	Y				
EPID	747	Investigative Epdemiology: Environmental Factors and Human Health (3)	Emphasis on the epidemiology of selected environmental factors which may affect human health including the identification of health hazards and methods of investigation.	related	James Burch burch@mailbox.sc.ed	

FINANC	E				<u> </u>		
FINA	666	Real Estate and Urban Development	An overview of real estate in both the public and private sectors that serves as the basis for advanced study in the various disciplines of real estate and urban development. No prior knowledge of the field is assumed.	pending-	NO	Sergey Tsyplakov, Steven Mann	
GEOGR	APHY						
GEOG	104	Introduction to Physical Geography (3)	The objective of this course is to provide a systematic introduction to physical geography, including the major components of the earth system (atmosphere, hydrosphere, biosphere and lithosphere) as well as regulatory processes, distribution patterns of important aspects, and impacts of human activity. Basic concepts of landform geography, climatology and meteorology, and biogeography.		related	Greg Carbone	
GEOG	201	Landform Geography (4)	Hydrology, soil science, and interpretation of physical features formed by water, wind, and ice, with emphasis on environmental change.		related	Greg Carbone	
GEOG	OG 202 Weather and Climate (4)		Processes that influence weather and climate patterns on the earth.		related	Greg Carbone	
GEOG	321	Cities, Environmental Transformation, and Sustainability (3)	An introduction to the impact of urbanization on environmental processes and pathways to greater sustainability.		focused	Greg Carbone	
GEOG	324	Landscapes of the US (3)	Geographic change through time in the United States, with emphasis on evolution of the American landscape. Physical environment as modified by human intervention over time within a regional framework.		related	Greg Carbone	
GEOG	330	The Geography of Disasters (3)	The study of disasters, their triggering mechanisms (natural, human, technological), their spatial distributions from local to global scales, and associated human responses.		focused	Greg Carbone	
GEOG	343	Human Impact on the Environment (3)	A spatial consideration of the processes, effects, and trends in environmental change resulting from human activity. The problems of resource management and the implications for future habitation of the earth are emphasized.		focused	Greg Carbone	
GEOG	346	Climate and Society (3)	Major theories and methodologies for studying the relationship between climate and society.		focused	Greg Carbone	
GEOG	347	Water as a Resource (3)	Introduction to spatial and institutional aspects of water availability, demand, and quality. Water storage/conveyance strategies and facilities. Real and perceived flood, drought hazards.		focused	Greg Carbone	
GEOG	360	Geography of Wind (3)	Fundamental principles of wind formation, measurement, and its impacts on the natural and human environment – landscape, human settlement and health, transportation, and energy.		related	Greg Carbone	
GEOG	365	Hurricanes and Tropical Climatology (3)	Atmospheric circulation, structure, and processes of tropical climates and hurricanes. Forecasting and model simulations of hurricanes. Temporal variations of tropical climate change and hurricanes.		related	Greg Carbone	
GEOG	371	Air Pollution Climatology (3)	Fundamentals, processes, and issues associated with air pollution. Emphasis is on the role of the atmosphere, how air pollution affects surface climate, and how climate and meteorology influence air quality.		related	Greg Carbone	
GEOG	511	Planning and Locational Analysis (3)	Scientific approaches to locational problems in urban and regional planning, including regional growth and decline, land use control, public facility location and provision, and locational efficiency.		related	Greg Carbone	
GEOG	516	Coastal Zone Management (3)	Analysis of the competing demands for limited resources in the coastal zone with emphasis on the role of management in the resolution of conflicts over resource use.		related	Ellis (prof); Greg Carbone	

			Human and environmental contributions to the generation and		
GEOG	530	Environmental Hazards (3)	management of hazards originating from extreme natural events to technological failures. Contemporary public policy issues at the national and international level.	focused	Greg Ca
GEOG	546	Applied Climatology (4)	Analysis of climate applications in natural and human-modified environments. Content may include water resources, solar energy, urban planning, air quality, agriculture, and tourism. Course work includes lab and field experimentation.	related	Greg Ca
GEOG	547	Fluvial Geomorphology (4)	Introduction to landforms and processes associated with flowing water at the earth's surface. Hydrology, sedimentology, and theories of channel formation and drainage basin evolution.	related	Greg Ca
GEOG	549	Water and Watersheds (3)	Spatial variation of hydrology, water quality, and water-related hazards, including runoff generation, soil erosion, sedimentation, and flood hazards. Emphasizes a watershed perspective using geographic data and methods.	related	Greg Ca
GEOG	564	GIS-Based Modeling (3)	Geographical information systems for modeling physical/human processes in space and time using raster and vector data. Cartographic modeling concepts, embedded models, and GIS-model coupling.	related	Greg Ca
GEOG	566	Social Aspects of Envir. Planning and Mgmt. (3)	Geographical approach to environmental problems.	focused	Greg Ca
GEOG	567	Long-Term Environmental Change (3) {=GEOL 567}	Climatic changes of the past and their impact on the physical landscape, with an emphasis on the Quaternary period.	related	Greg Ca
GEOG	568	Human Dimensions of Global Environmental Change (3)	Consequences of increasing anthropogenic changes on environmental systems including the sources of change, regional impacts, and social and policy responses.	focused	Greg Ca
GEOG	569	Environment and Development {=ANTH 569} (3)	Examination of development theory and environmental implications of social and economic change. Study of general theoretical perspectives will be balanced with case study materials.	focused	Greg Ca
GEOG	570	Geography of Public Land and Water Policy (3)	Geography of public land, water, and related public trust resources (wildlife, timber, minerals, fuels, recreation, wetlands, coastal zones, wilderness); historical geography of policy; spatial aspects of current research and management.	related	Greg Ca
GEOG	571	Microclimatology (4)	Field techniques and processes in the atmospheric boundary layer including radiation, soil heat fluxes, turbulence, momentum, latent and sensible heat fluxes, moisture, and evaporation.	related	Greg Ca
GEOG	573	Climatic Change and Variability (3)	Observations and theories of climatic change and variability as they occur at different space and time scales. Projections of future climates. Techniques used in climatic change research and impact analysis.	focused	Greg Ca
GEOG	581	Globalization and Cultural Qustions (3)	This course examines cultural understandings of and responses to globalization, examining topics such as its history and theories, migration, economic integration and inequality, identity, social movements, and the environment.	related	Greg Ca
GEOG	730	Seminar in Environmental Geography (3)	Review of recent geographic literature on nature-society interactions with an emphasis on identifying research themes and methodologies employed by contemporary geographers.	focused	Greg Ca
GEOG	746	Seminar in Climatology (3)	Major theories, measures of climatic change and variability, climate models, statistical analysis, and climate impacts.	related	Greg Ca
GEOG	830	Advanced Seminar in Environmental Geography (3)	A research seminar where students critically evaluate relevant literature, develop a research proposal, and complete a related research project in environmental geography.	focused	Greg Ca greg.car

nd ents to the	focused	Greg Carbone		
fied nergy, work	related	Greg Carbone		
wing theories	related	Greg Carbone		
ated ation, and cographic	related	Greg Carbone		
man rtographic ling.	related	Greg Carbone		
	focused	Greg Carbone		
ıl	related	Greg Carbone		
onmental and social	focused	Greg Carbone		
lications	focused	Greg Carbone		
sources al zones, of current	related	Greg Carbone		
layer latent	related	Greg Carbone		
as they re mpact	focused	Greg Carbone		
ses to ies, ial	related	Greg Carbone		
eractions dologies	focused	Greg Carbone		
climate	related	Greg Carbone		
nt ed		Greg Carbone greg.carbone@sc.ed	du	

		·						
GEOLOG	GEOLOGY					gwen geidel, lakshmi are WORKING ON IT		
GEOL	103	Environment of the Earth (4)	Analysis of basic energy cycles of the earth. Interaction of human activity with earth processes to affect the environment.	pending-	related			
GEOL	110	Cultural Geology (3)	The growth of geological concepts, scientific and non-scientific. The impact of geological factors on human affairs. The role of time and evolution (biological and physical). Restricted to non-science majors.	pending-	related			
GEOL	205	Earth Resources (3)	Mineral, energy, and water resources with emphasis on geological processes governing their distribution. Intended for non-science majors.		related	Michael Bizimis mbizimis@geol.sc.e	fall	
GEOL	209	Use and Misuse of the Earth's Resources (3)	Integration of the geological, spatial, and hydro-environmental issues arising from extraction, use, and disposal of selected mineral, energy, and water resources.	pending-	focused			
GEOL	215	Coastal Envir. of the SE U.S. {= MSCI 215} (3)	Coastal zones of South Carolina and neighboring states, including geologic history, geomorphology, stratigraphy, hydrogeology, shoreline processes, environmental issues and effects of man. Three lecture hours each week plus optional field trips.	pending-	related			
GEOL	305	Earth Systems Through Time (4)	Survey of earth history, the evolution of continents and oceans, the history of life, and geological dating methods.	pending-	related			
GEOL	315	Surface and Near Surface Processes (4)	Overview of groundwater, surface water hydrology, sediment transport, river systems, and coastal processes.	pending	NO			
GEOL	335	Processes of Global Environmental Change (4)	The science of global change, its relation to the hydrosphere, atmosphere, lithosphere, and biosphere. Global system science, biogeochemical cycles, paleoclimatology, glaciation, and eustacy.	pending	related			
GEOL	508	Palynology (3)	Fundamentals of pollen analysis including morphology of modern and fossil forms, use of pollen and spores for correlation, dating, establishing phylogenetic trends, and reconstruction of ancient environments.	pending	NO			
GEOL	524	Environmental Radioisotope Geochemistry (3)	Introduction to radioactivity and the use of radionuclides to study environmental processes, including age-dating and biogeochemical cycling in aquatic systems.	pending	related			
GEOL	548	Environmental Geophysics (3)	Practical geophysical techniques for exploring the shallow subsurface Seismic, resistivity, well log, gravity, magnetic methods. Field exercises to collect and analyze data.	pending	related			
GEOL	560	Earth Resource Management (3)	An approach to problems of resource management by lecture and seminar using case studies in mineral, energy, hydrogeological, and environmental science.	pending	related			
GEOL	561	Environmental Field Geology (6)	An introduction to field methods in sedimentology, structural geology, hydrogeology and geophysics with special reference to geological hazards and environmental problems.	pending	related			
GEOL	567	Long-Term Environmental Change (3) {=GEOG 567}	Climatic changes of the past and their impact on the physical landscape, with an emphasis on the Quaternary period.	pending	focused			
GEOL	570	Environmental Hydrogeology (3)	Environmental considerations of the hydrologic cycle, occurrence and movement of ground water, aquifer analysis and water well emplacement and construction. Water quality, pollution parameters, and the geochemistry of selected natural systems. The effects of environmental problems, waste disposal, and urban development upon the aqueous geochemical regime.	pending	related			

GEOL	571	Soil Hydrology (4)	Saturated and unsaturated water flow through soils, pore pressure	pending	NO			
GLOE	371	Son Hydrology (1)	development, runoff generation, and watershed response to rainfall.					
GEOL	575	Introduction to Groundwater Modeling (3)	Mathematical and numerical models describing groundwater flow and contaminant transport; with application of numerical models.	pending	NO			
GEOL	702	Environmental Earth Science for Teachers (4)	The hydrologic cycle in geologic settings of this region, and the effects of urbanization and industrialization on groundwater, rivers, and coasts. The vulnerability of urban and industrial systems to natural geologic processes.	pending	related			
GEOL	713	Environmental Aspects of Paleontology (3)	Analysis of current thought and current research in paleoecology and taphonomy.	pending	related			
GEOL	743	Decision-Making in Environmental Resource Management (3)	Environmental project planning and management. Types and magnitudes of environmental problems; environmental pathways; environmental data acquisition and analysis; protection versus restoration; risk assessment; site assessment.	pending	focused			
GEOL	744	Decision-Making in Energy Resource Management (3)	An integrative seminar for science managers. Consideration of the technical, managerial, and financial aspects of decision making in geologic enterprises, with emphasis on hydrocarbon exploration.	pending	related			
GEOL	755	Environmental Measurements and Analysis (3) {= BIOL 755}	A field and laboratory course designed to acquaint students with basic techniques needed to measure and analyze various biotic and abiotic environmental parameters in estuarine and shallow water habitats.	pending	NO			
GEOL	773	Water Quality and Pollution (3)	The nature of water; physical, chemical, and biological quality parameters. Techniques of quantitative analysis, methods of water quality control, and pollution abatement. Hydrogeochemical interactions and effects on water quality and waste disposal.	pending	related			
GERMA	N					_		
GERMA GERM	N 295	Green Technology in Germany	This course examines the roots and culture of environmentalism in Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.	pending	related			
	295	Green Technology in Germany	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to	pending	related			
GERM	295	Green Technology in Germany  Science and Technology in World History	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to	pending	related	Emily Brock brockEK@mailbox.so 803-777-7092	Spring 10 Fall 10 Spring 11	
GERM HISTOR	295 <b>Y</b>		Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world			brockEK@mailbox.so	Spring 10 Fall 10 Spring 11	
GERM HISTOR	295 <b>Y</b>	Science and Technology in World History	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world		NO	brockEK@mailbox.sc 803-777-7092 Tom Lekan	Spring 10 Fall 10 Spring 11 Spring 10	
GERM HISTOR HIST	295 Y 108	Science and Technology in World History  The Urban Experience in Modern Europe	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and		NO related	brockEK@mailbox.sc 803-777-7092 Tom Lekan		
HISTOR HIST HIST HIST	295  Y  108  378  448	Science and Technology in World History  The Urban Experience in Modern Europe  American Environmental History	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and		NO related focused	brockEK@mailbox.sc 803-777-7092 Tom Lekan Tom Lekan Tom Lekan Tom Lekan		
HISTOR HIST HIST HIST HIST	295  Y  108  378  448  493	Science and Technology in World History  The Urban Experience in Modern Europe  American Environmental History  Special Topcs	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and		NO related focused related	brockEK@mailbox.sc 803-777-7092 Tom Lekan Tom Lekan		
HISTOR HIST HIST HIST HIST HIST HIST	295  Y  108  378  448  493  498  700	Science and Technology in World History  The Urban Experience in Modern Europe  American Environmental History  Special Topcs Senior Seminar	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and		NO related focused related related	brockEK@mailbox.sc 803-777-7092 Tom Lekan Tom Lekan Tom Lekan Tom Lekan Tom Lekan		
HISTOR HIST HIST HIST HIST HIST HIST HIST	295  Y  108  378  448  493  498  700	Science and Technology in World History  The Urban Experience in Modern Europe  American Environmental History  Special Topes Senior Seminar  Grad Seminar- Envisioning Landscape	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and		NO related focused related related	brockEK@mailbox.sc 803-777-7092 Tom Lekan Tom Lekan Tom Lekan Tom Lekan Tom Lekan	Spring 10	
HISTOR HIST HIST HIST HIST HIST HIST HIST HOSPIT	295  Y  108  378  448  493  498  700  ALITY M	Science and Technology in World History  The Urban Experience in Modern Europe  American Environmental History  Special Topcs Senior Seminar  Grad Seminar- Envisioning Landscape  MANAGEMENT	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and technology with the physical environment over time.  Focuses on tourism that is nature-based and entails a learning component while being managed for environmental, economic, and sociocultural sustainability.  Principles and practice of tourism planning fostering sustainable tourism development at international, national, state, regional, local and site levels.		NO related focused related related related	brockEK@mailbox.sc 803-777-7092  Tom Lekan  lekan@sc.edu  HARRILL R	Spring 10	
HISTOR HIST HIST HIST HIST HIST HIST HIST HIST	295  Y  108  378  448  493  498  700  ALITY M	Science and Technology in World History  The Urban Experience in Modern Europe  American Environmental History  Special Topes Senior Seminar  Grad Seminar- Envisioning Landscape  MANAGEMENT  Ecotourism (3)	Germany, environmental initiatives, and the newest green technology innovations and compares green practices around the world to practices within Europe.  The development of science and technology and their roles in world civilizations from antiquity to the present.  Interaction of cultural values, economic interests, public policy, and technology with the physical environment over time.  Focuses on tourism that is nature-based and entails a learning component while being managed for environmental, economic, and sociocultural sustainability.  Principles and practice of tourism planning fostering sustainable tourism development at international, national, state, regional, local		NO related focused related related related focused	brockEK@mailbox.sc 803-777-7092  Tom Lekan  Tom Lekan  Tom Lekan  Tom Lekan  Tom Lekan  lekan@sc.edu  HARRILL R  rharrill@hrsm.sc.ed	Spring 10	

HRTM	597	Global Travel and Tourism (3)	considerations of international tourism management and development.		focused	Xiang (Robert) Li robertli@mailbox.so	most springs	
JOURNA	LISM					Shirley Carter, Tom Klipstine, Jeff Ranta		
JOUR	328	Principles of Public Relations (3)	Methods used by business, government, consumer groups, minorities, environmentalists, and others to influence public attitudes toward their activities.	pending	related			
JOUR	335	Reporting (3)	Covering specific news assignments and writing under deadline pressure.	pending	NO			
JOUR	364	Introduction to Visual Communications (3)	Theory and history of visual communication in the mass media emphasizing informational and persuasive messages created by graphic, photographic, and multimedia processes.	pending	NO			
JOUR	436	Public Relations Writing (3)	Special areas of writing for public relations.		related	Ranta		
JOUR	463M	Green Marketing	N/A		related	Ranta	Maymester	
JOUR	531	Public Relations Campaigns (3)	Development of public relations campaigns for business and social institutions. Case studies of public relations campaigns and programs.		related	Ranta ranta@gwm.sc.edu		
JOUR	540	Magazine Article Writing (3)	Researching, organizing, writing, and marketing articles for publication in general and specialized publications.	pending	NO			
JOUR	562	The Journalism of Science and Technology (3)	Explores the role of the media in shaping perceptions of scientific issues and public policy. Emphasis on methods of communicating technical information to various publics.	pending	related			
JOUR	566	Public Relations Management (3)	Researching, programming, staff, budgeting, and planning public- relations programs by business, government, or consulting firms.		related	Ranta		
JOUR	568	Public Relations Practicum (3)	Application of public relations techniques and skills in preparation of full-scale campaign.	pending	NO			
JOUR	547	Independent Study: The Carolina Agency	Individual mass media projects. Contract approved by instructor, advisor, and department head is required for undergraduate students.		related	Ranta		
LAW						Cinnamon Carlarne carlarne@law.sc.edu		
LAWS	565	Coastal Conservation Law	This course examines Federal, state, and local laws meant to balance development and conservation of coastal property.	pending	related			
LAWS	651	Land Use Planning	A study of regulation of land use. Topics include zoning, subdivision regulation, and takings. One emphasis of course is on practice in the area. To accomplish this goal, class methodology will include use of problems, based on South Carolina law and on the City of Columbia Code, that will be worked on in teams. In addition, students will be required to attend a total of four meetings of councils/commissions during the semester.	pending	related			
LAWS	666	International Environmental Law	This course looks at the nature of the international law process in this area (with its limited number of treaty and substantive law principles), economic perspectives on natural resource usage, state sovereignty and abiding tensions between industrialized and developing countries concerning pollution problems (beyond prohibitions, to technology transfer and the " who pays " question).	pending	focused			
LAWS	684	Environmental Law of Natural Resources	This course examines the role of laws and legal institutions in ensuring sustainable and efficient use of natural resources.	pending	focused			

LAWS	731	Federal Environmental Law	This is an introductory course in environmental law. The purpose is to give interested students a background in a number of federal environmental statutes, including NEPA (National Environmental Policy Act) CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) ESA (Endangered Species Act) and CWA (Clean Water Act). There will also be some study of the relationship of environmental regulation and the taking of private property under the Fifth amendment.	pending	focused		
LAWS	734	Climate Change Law and Policy	This seminar explores the challenges global climate change poses to law-makers at the local, national, and international levels.	pending	focused		
LAWS	736	Dealing with Environmental Law and Policy in the Media	This seminar on Dealing with Environmental Law and Policy in the Press will engage students in the study of attracting and managing press coverage of environmental legal and policy issues and understanding the role of mass media with respect to environmental law and policy.	pending	related		
LAWS	738	Environmental Law of South Carolina	This is a course in environmental law in South Carolina. Starting with the SC Pollution Control Act and case law interpreting that statute, the course will explore the relationship between Federal statutes (Clean Water Act, Clean Air Act, Safe Drinking Water Act, RCRA, CERCLA) and the counterpart state laws.	pending	related		
LAWS	804	Environmental Advocacy Seminar	This course explores and develops practical advocacy skills in the area of environmental representation. Topics include: case planning; administrative, legislative, and litigation practice; policy development; settlement/negotiation; remedies; ethical considerations and effective communication between lawyers and environmental scientists, engineers, and other professionals. In order to facilitate meaningful learning regarding all aspects of advocacy, the course relies heavily on simulations, guest lecturers from lawyers and non-lawyers, and collaborative work.	pending	related		
LAWS	805	Environmental Law Clinic		pending	related		
LAWS	816	Introduction to Environmental Law and Policy	Intensive one credit course on certain basics of environmental law and policy. The course will cover: relevant history of environmental law and policy; fundamental statutory, regulatory and case law as well as other authorities in the environmental field; an overview of the relevant federal agencies; and a case study.	pending	related		
LAWS	826	Energy Law and the Environment	This course is an introductory course in energy law and policy, with a focus on the effects of choices of energy sources on the environment and natural resources.	pending	focused		
LAWS	834	Public Interest Environmental Law	This course allows students to explore the practice of public interest environmental law primarily through a directed research project culminating in an original scholarly work.	pending	realted		
MEDIA	ARTS					david voros	
MART	371	The Moving Image (3)	Advanced communicative elements of movingimages including editing patterns and the grammar of film and video.	pending	NO		
MART	380	Web Media Arts (3)	An introduction to the design, development, and implementation of Web-based media, including current technologies and design issues related to the development of Web sites.	pending	NO		
MARINI	E SCIENC	ZE					
MSCI	101	The Ocean Environment (3)	N/A		related	Claudia Benitez- Nelson cbnelson@geol.sc.edu	
		l	Origin, evolution, and diversity of marine life, biological production,				

MSCI	102	The Living Ocean (4)	trophic dynamics, nutrient cycles, marine resources, and environmental concerns. Three lecture and three laboratory hours per week. Scheduled field trips required.
MSCI	210	Oceans and Man (3)	A nontechnical introduction to human interactions with the marine environment: marine organisms, marine systems, and the physical and chemical characteristics of oceans and estuaries. Not available for marine science major credit.
MSCI	215	Coastal Envir. of the SE U.S. {= GEOL 215} (3)	Coastal zones of South Carolina and neighboring states, including geologic history, geomorphology, stratigraphy, hydrogeology, shoreline processes, environmental issues, and effect of man. Three lecture hours each week plus optional field trips. Not available for marine science major credit.
MSCI	311	Biology of Marine Organisms (4)	Biological concepts emphasizing adaptation to marine environments.  Laboratory experiments emphasize principles and techniques of marine biological study.
MSCI	390	Science and Environmental Policy (3)	Selected issues in the use of scientific information in resource management policies. Readings, invited lecturers, discussions and debate, and a required field trip.
MSCI	450	Principles of Biological Oceanography {=BIOL 450}	Principles and methods of measuring production in the sea. Emphasis on the ocean's role in the global carbon budget.
MSCI	460	Field and Laboratory Investigations in Marine Science (4)	Intensive inquiry-based investigations combining oceanographic field sampling with laboratory measurements of collected samples using modern analytical instrumentation, and with analysis and integration of data into a final research report. Course conducted in residence at a marine field site.
MSCI	505	Senior Seminar (1)	N/A
MSCI	510	Invertebrate Zoology (4)	Phylogenetic and comparative aspects of anatomy, physiology, reproduction, and embryology of the invertebrates.
MSCI	524	Environmental Radioisotope Geochemistry (3)	Introduction to radioactivity and the use of radionuclides to study environmental processes, including age-dating and biogeochemical cycling in aquatic systems.
MSCI	536	Ichthyology (4) {BIOL 536}	Phylogeny, morphology, behavior, and ecology of fishes. Three lecture and 3 laboratory hours plus three field trips to be arranged.
MSCI	537	Aquaculture (3) {=BIOL 537}	Introduction to the practical and scientific aspects of the commercial culture of freshwater and marine organisms. Three lecture hours per week. One all-day field trip required.
MSCI	538	Behavior of Marine Organisms (4) {=BIOL 538}	The identification of behavioral adaptations of estuarine and marine organisms: their ecology, physiology, development, and evolutionary history; field observations.
MSCI	557	Coastal Processes {= GEOL 557} (3)	Physical and geological processes controlling the formation and evolution of beach, barrier, and nearshore environments, including discussion of coastal management issues. Field trip(s) to coastal environments.
MSCI	575	Marine Ecology (3) {=BIOL 575}	Structure, dynamics, and interactions between populations and communities in marine ecosystems. Three lecture hours per week. Attendance at designated departmental seminars is required.
MSCI	580	Satellite Oceanography (3) {=GEOL 580}	This course provides knowledge of various techniques used in satellite remote sensing of the oceans. Key skills will be developed in

elated	Tammi Richardson tammirichardson@	gmail.com	
ocused	Virginia Shervette shervette@sc.edu		
elated	Claudia Benitez - Nelson		
elated	Blaine Griffen		
elated	Claudia Benitez- Nelson		
elated	Tammi Richardson		
elated	Claudia Benitez - Nelson		
elated	Claudia Benitez- Nelson		
,			
elated	Blaine Griffen	bgriffen@biol.sc.edu	
elated	Claudia Benitez - Nelson		
elated	Claudia Benitez- Nelson		
elated	Claudia Benitez-		

			satellite data processing, image analysis, and hands-on research.			Nelson		
MSCI	581	Estuarine Oceanography (3) {=GEOL 581}	Estuarine kinematics and dynamics; classification of estuaries; estuarine circulation and mixing.		related	Claudia Benitez- Nelson		
MSCI	627	Marine Phytoplankton (3) {=BIOL 627}	Examines the physiology and ecology of phytoplankton, including environmental controls on community composition, primary productivity, and detection and characterization of water quality (eutrophication) and harmful algal blooms.		related	Claudia Benitez- Nelson		
MSCI	750	Advanced Biological Oceanography {=BIOL 750}	N/A		related	Tammi Richardson		
MARKE	TING	1						
MKTG	350	Principles of Marketing (3) {501 Honors]	Principles and concepts underlying marketing functions, including the conception, pricing, promotion, and distribution of products and services and the role of marketing in society.		related	Crockett	fall	
MKTG	705	Marketing Communcations (3)	Advertising, sales promotions, marketing-oriented public relations, event and sponsorship marketing, point-of-purchase communications, and other aspects of integrated marketing communications.		related	Crockett	spring 2010, fall 2011	
NAVY						michael?		
NAVY	402	Naval Leadership and Ethics (3)	Integration of professional military competencies and qualities of effective leadership with emphasis on moral and ethical responsibilities, accountability, communications, and military law for the junior officer.	pending	related			
PHILOS	OPHY							
PHIL	101A	Ethics of Food (3)	Introduction to range of ethical questions and concerns related to food production and consumption.		related	kevin elliot	spring	
PHIL	322	Environmental Ethics (3)	Examination of principles and arguments surrounding moral issues involving the environment.		related	kevin elliot	frequently	
PHIL	323	Ethics of Science and Technology (3)	Role of ethical judgments in directing or curtailing scientific research; case studies from natural and social sciences.		related	kevin elliot	frequently	
PHIL	325	Engineering Ethics (3)	An investigation of ethical issues in engineering and engineering- related technology. Topics include whistleblowing, employee/employer relations, environmental issues, issues related to advances in information technology, and privacy.		related	kevin elliot	frequently	
PHIL	535	Ecofeminism (3) {WGST 535}	An exploration of the connections between oppression of women and oppression of nature.		related	kevin elliot	not often	
PHIL	800		Examination of the effectiveness of environmental policies and methods relative to current issues and needs.		related	kevin elliot	not often	
PHIL	835	Environmental Ethics Seminar (3) {=ENVR 835}	Examination of the intellectual, cultural, and ethical frameworks within which environmental problems arise and are solved.		related	kevin elliot	every other fall	
POLITIC	CAL SCII	ENCE						
POLI	121	Green Explorations {=ENVR 121} (3)	Interdisciplinary seminar combining the intellectual exploration of ecological perspectives with the physical exploration of the local environment. First-year students only.		focused	David Whiteman		
POLI	122	Green Engagements {=ENVR 122} (3)	Interdisciplinary seminar on designing, researching, and implementing collaborative projects to promote ecological sustainability. First-year students only.		focused	David Whiteman		
POLI	365	State Government (3)	A study of state-federal relations, relations among states, state constitutions, and the structure and functions of the three branches of government. Emphasis is given to South Carolina.		related	David Whiteman		
POLI	368	Interest Groups and Social Movements (3)	The mobilization, organization, tactics, and results of group-based politics, including latent interests and the suppression of interests.		related			
POLI	370	Introduction to Public Administration (3)	A study of the basic principles and theory of administrative structure, responsibility, and control in relation to policy making in the modern	pending	NO			

			state.				
POLI	374	Public Policy (3)	Process of and major approaches to making public policy particularly, in the United States. Case study materials will focus on such major policies as welfare, health care, national security, and resource management.		related	David Whiteman	
POLI	380	Comparative Politics of Developing Countries (3)	A comparative analysis of the political problems confronting new nations, the political consequences of the breakdown of traditional society and the problems of developing new institutional forms and procedures.	pending	related		
POLI	421	Law and Contemporary International Problems (3)	The growth of law in several areas of increasing international concern: environmental protection, expropriation, outer space, individual rights and obligations, conservation of resources, state responsibility, and terrorism.	pending	related		
POLI	431	Science, Technology, and Public Policy (3)	Interaction between science and politics, the making of the national science and technology policy, and the role of public policy in promoting and managing scientific change.	pending	related		
POLI	452	The Judicial Process (3)	A study of the growth of law, the law-making function of the courts, the structure and organization of federal and state courts, the procedures involved in civil and criminal cases, and the problems and proposals for reform in the administration of justice.	pending	NO		
POLI	462	The Legislative Process (3)	A study of the structure, organization, powers, functions, and problems of legislative bodies.	pending	NO		
POLI	463	The American Chief Executive (3)	Constitutional, statutory and political powers and roles of the American chief executive.	pending	NO		
POLI	465	Psychology and Politics (3)	The role of psychology in political attitudes and behavior.  Examination of individual psycho-political relationships and aggregate typologies. Particular emphasis on the psychological roots of the need for or the rejection of political authority.	pending	NO		
POLI	470	Federalism and Intergovernmental Relations (3)	The origins and evolution of the American federal system, focusing on the constitutional, regulatory, and financial entanglements among federal, state and local governments.	pending	NO		
POLI	477	Green Politics (3)	An analysis of political responses to ecological issues, including both general perspectives on the nature of social and environmental problems as well as specific local, state, national, and global concerns. Vs. An analysis of green political thought and environmental movements at the local, state, national, and global levels.		focused	David Whiteman	
POLI	478	Environmental Policy (3)	Themes in environmental policy in industrialized nations. Analysis of issue framing, the role of the public and private tools, and conflicting perspectives. Incorporates analysis of policy process and public management.		focused	David Whiteman	
POLI	554	Law and Society (3)	The American judicial system, including the decision to resolve disputes by legal means, political influence on the legal system, the social impact of legal rulings, the relationship of the courts to other branches of government, and the applicability of higher law concepts in judicial decision making.	pending	NO		
POLI	567	American Local Government (3)	An introduction to the institutions, functions, policy-making processes, and politics of American local government.		related	David Whiteman	
POLI	570	South Carolina Government and Politics (3)	South Carolina state and local government in the context of South Carolina history and U.S. state and local government.	pending	NO		
POLI	730	Science, Technology and International Affairs (3)		pending	related		

ĺ		1	1				I	1
POLI	732	International Law (3)	Study of the role of law in international relations, emphasizing both substantive and theoretical problems relating to development of systems of law in such areas as war, protection of human rights, outer space and oceans, and international commerce.	pending	NO			
POLI	754	Public Accountability and Ethics (3)	An examination of the legal, political, professional, and organizational accountability demands made on administrators; the interplay of these demands with the needs for ethical decision making and integrity.	pending	related			
PSYCHO	DLOGY							
PSYC	487	Community Psychology (3)	Application of knowledge from other areas of psychology to the study of the role of the individual in the community	pending	NO			
PSYC	489	Community Psychology Practicum (3)	Supervised, structured field experience in a community agency, applying psychological principles, theory, and research. May be repeated once for credit.		related	Brad Smith	spring/fall	
PUBLIC	HEALTE	I	charlie adams					
PUBH	102	Introduction to Public Health (3)	An introduction to the history, theory, and practice of public health. Emphasis will be on the population perspective and the ecological model including the population impacts of health care systems.	pending	related			
PUBH	499	Foundations of Public Health Leadership (3)	An introduction to core principles in public health leadership. Areas included are ethics, public health issues, communication issues, leadership competencies, and leadership values.	pending	related			
HONOR	S COLLE	GE						
SCHC	333Y	Proseminar: Local Food as a Catalyst for Community Transformation: Putting Green Values into action				David Whiteman/Carter Cox	spring 11	
SCHC	434N	Global Security	In this seminar, we will examine the major threats to global security, including, but not confined to, nuclear proliferation, terrorism, economic instability, and ecological crises. We will try to understand these challenges, both their character and possible solutions, in terms of decades, not years.			Peter Sederberg sederberg@schc.sc.ec	<sub>I</sub> spring 11	
SCHC	285B	Proseminar: Natural history of South Carolina			related?	Rudy Mancke	fall 10	
geology s	eminar?					gwen geidel		
SGEL	103	Environmental Earth Science	Broad range of interactions between the planet and the human species, to develop and suggest solutions to the problem areas.	pending	focused			
SGEL	121	Geology of North America	Use of national parks to consider the role of systems of protected areas in developing relationship with the land.	pending	related			
SGEL	131	Earth Resources	currently published case studies & news articles on particularly problematic resources, e.g. water, energy	pending	focused			
SGEL	101	Physical Geology	Sustainability is considered as an introductory concept for consideration of physical processes.  We study background information on environmental geology to give	pending	focused			
SGEL	241	Environmental Geology of South Carolina	us the wherewithal to analyze and respond to environmental challenges of the region.	pending	related			
	nd Mathe	ematics for Educators						
SMED	587	Interdependence of Living Systems	Integrated study of the biotic and abiotic environments combining life, earth, and physical science concepts to understand relationships in living systems. For pre-service and in-service middle school teachers.					
SOCIOL	OGY					Elizabeth Deliyski?		
SOCY	309	An Introduction to Social Inequity (3)	A sociological analysis of the distribution of wealth and income in selected societies.	pending	related	<u>, , , , , , , , , , , , , , , , , , , </u>		
SOCY	310	Social Demography (3)	Selected theoretical orientations, methodological procedures, and illustrative substantive data pertaining to population.	pending	NO			
			Relationships among and changes in populations, social organization,					

SOCY	311	Ecology of Human Social Systems (3)	technology, and the environment.	<mark>pending</mark>	focused			
SOCY	315	World Population: Problems and Policies (3)	World population growth and concomitant socioeconomic problems. Effectiveness of governmental policies concerned with population growth. Topics include over-population	pending	related			
SOCY	501	Cities and Politics (3)	The social forces, contemporary and historical, that form the present urban political system.	pending	NO			
SOCY	514	Urbanization (3)	Analysis of urbanization using contemporary and historical data from developing societies. The demographic components of metropolitan growth and the changing structure of metropolitan communities.	pending	NO			
SOCY	550	Sociology of Science (3)	Interrelationships among society, culture, and contemporary science.	pending	NO			
SOCY	745	Human Ecology and Urbanization (3)	Classical and contemporary theories of human ecology, cities, and urban life treated at urban, regional, national and international levels.	pending	related			
SOCIAL	WORK							
SOWK	341	Human Behavior and Social Environment I (HBSE): Individual Development Across the Life Span. (3)	Analysis of the process and functions of persuasive communication (analysis of public speaking).		related	susan parlier	fall	
SOWK	342	Human Behavior and Social Environment I (HBSE): Individual Development Across the Life Span. (3)	Family development and human behavior within the context of intimate social systems and the larger cultural and sociological contexts.		related	susan parlier	spring	
SOWK	422	Advocacy for Social and Economic Justice (3)	Knowledge and skills embedded in values of social and economic justice for all people across systems of all sizes that are essential in generalist practice.		related	susan parlier	spring	
SOWK	441	Human Behavior and the Social Environment (HBSE) III: Large Systems (3)	Examining how individuals and families are affected by, and affect, larger social systems.		related	susan parlier	fall	
STATIST	ΓICS							
STAT	528	Environmental Statistics (3)	Statistical analysis of environmental data. Review of multiple regression and ANOVA, nonlinear regression models and generalized linear models, analyses for temporally and spatially correlated data, and methods of environmental sampling.		focused	Don Edwards		
STAT	708	Environmetrics I {=BIOS 808}	Statistical methods for environmental and ecological sciences, including nonlinear regression, generalized linear models, spatial analyses/ kriging, temporal analyses, meta-analysis, quantitative risk assessment.		focused	Don Edwards		
STAT	709	Environmentrics II {=BIOS 809}	Theoretical underpinnings of environmetrics. Spatial statistics, temporal and longitudinal analysis, hierarchical modeling, and Bayesian inferences for environmental data.		focused	Don Edwards		
STEM								
STEM	101	l Concepts and Connections: An Introduction to Science, Technology, Engineering, and Mathematics	This course introduces concepts, connections, and evolving relationships among the sciences engineering and mathematics to strengthen understanding of current ideas and applications of advancing technologies.			Loren Knapp knapploren@sc.edu 803-777-2505	spring 10 fall 10 spring 11	
WOMEN	N'S AND	GENDER STUDIES				burke		
WGST	535	Ecofeminism (3)	An exploration of the connections between oppression of women and oppression of nature.	pending	pending			