Department	Course #	Title	Instructor(s)	Designation	Course Description / Justification
AAST	366	Race-Ethnic Relations		Sustainability-Inclusive	In this course, students will critically examine contemporary domestic and global issues of race and ethnicity. Students explore concepts, theoretical perspectives, and research on patterns of cooperation and conflict between different racial and ethnic groups. Sources of prejudice, discrimination, power relations and stratification are discussed and applied.
ACCT	204	Managerial Accouting	Thomas Spade	Sustainability-Inclusive	First, we are teaching the Triple Bottom Line in the first chapter. In a later chapter, we do an assignment (noted on the syllabus as the Sustainability Assignment) that includes calculating profitability of a coffee shop that implements a sustainability practice (selling reusable coffee cups and then offering a discount when customers come back), looking at profitability before the practice is implemented, as well as after (including the effect on demand and sales with selling the cup and later discounts to those who participate in the program, as well as costs (because the cost of the paper cup won't apply to those who bring their own), and profitability. This gives them a hands-on example of the effect a sustainable practice can have on profitability, as well as the delicate balance that is the Triple Bottom Line.
ANTH	115	Introduction to Cultural Sustainability		Sustainability-Inclusive	Students are introduced to the concept of cultural sustainability and how it intersects with ecological, economic, and social dimensions of sustainability in both current and historical contexts.
ANTH	201	Cultural Anthropology		Sustainability-Inclusive	This course provides a comparative perspective on how social groups make sense of their world. It introduces students to key anthropological concepts such as culture, holism, relativity, and social organization, as well as to ethnographic and cross-cultural methods. It provides an opportunity to examine culture as an ever-evolving feature of human adaptation to changing social, economic, and environmental conditions.
ANTH	202	Introduction to Archaeology		Sustainability-Inclusive	An introduction to basic theory and methods in the archaeological recovery and interpretation of past cultural remains.
ANTH	205	Language and Culture		Sustainability-Inclusive	A study of language in its social and cultural context. Relationships between language and the transmission of meaning, world view and social identity will be examined.
ANTH	345	Applied Anthropology		Sustainability-Inclusive	An examination of the practical uses of anthropological methods, concepts and theories to bring about technological, cultural, economic or social change with specific attention to cultural sustainability.
ANTH	347	Introduction to Museum Studies		Sustainability-Inclusive	This course examines how the collection, preservation and exhibition of artifacts, scientific specimens, art and technology in museums shape our understanding of humanity and our world.
ANTH	362	Social and Cultural Change		Sustainability-Inclusive	"Why do people's cultural affiliations shape their behavior so dramatically in some contexts but not at all in others? Why are some individuals from a culture more adherent to its characteristic patterns than are others? Why do some cultural patterns persist unchanged across many generations, whereas others shift dramatically within a generation? And what distinguishes successful and failed attempts at directed culture change?" This course explores these and other questions related to the dynamics of culture change. In particular, the course emphasizes theory and cases studies related to various aspects of the relationship between cultural change and cultural sustainability.
ANTH	401	Environmental Anthropology		Sustainability-Inclusive	We live in an age of climate-driven, massive ecological change, and as observers and constituents of this age, we are bound to each other by the economic, social, and cultural issues that result from the ecological shifts we experience. This course cultivates an anthropological understanding of how these relationships are managed and experienced by people in different social contexts, as well as the political, economic, and socio-cultural underpinnings of some of the most pressing ecological issues that we encounter today.
ANTH	491	Research Methods		Sustainability-Inclusive	A Capstone Experience for the anthropology major. While specific methods and/or field will vary depending on the instructor's field of expertise, this course focuses on the variety of ways anthropological research is conducted.
ARTH	105	Introduction to Architecture		Sustainability-Inclusive	A survey of the history of Western architecture from Ancient Mesopotamia to the 21st century that will analyze architecture in terms of function, structure, form, and cultural and historical context.
ARTH	260	Addlestone Seminar on the Arts and Culture of the Lowcountry		Sustainability-Inclusive	Topics related to Lowcountry arts and culture may include Charleston architecture, historic preservation planning, garden and landscape architecture, etc.
ARTH	396	The Architecture of Memory: Museums, Memorials, Monuments		Sustainability-Inclusive	How and why do communities form and sustain collective memories? This class will explore a broad range of sites of commemoration from many places, with a special focus on the American South and its many contested monuments. Students will design and present a monument confronting issues of race in Charleston.
ARTM	210	Introduction to Music Industry		Sustainability-Inclusive	Students will learn how artists, labels, managers, agents, promoters, publishers, PR agents, engineers, and producers work together to create, distribute, and promote music.
ARTM	255	Presenting the Performing Arts		Sustainability-Inclusive	In this course, students will practice the skills necessary for booking, managing, and producing performing arts events from a local and national perspective, with an emphasis on music performances and touring. Students will explore the performing arts from the perspectives of venues, booking agents, tour managers, promoters, and artists while investigating the rise of festivals, the importance of small venues to the arts, and the differences between nonprofit and for-profit productions.
ARTS	235	ST: Environmental and Land Based Art		Sustainability-Inclusive	Introductory studies in Studio Art practice focusing on specialized topics and approaches in drawing, sculpture, printmaking, photography, painting and alternative and multi media applications. Courses are designed and offered by faculty according to their interests and expertise.
BIOL	101	Concepts and Applications in Biology 1		Sustainability-Inclusive	This is a non-science majors' course, which will provide a background for understanding and evaluating contemporary topics in biology and societal/environmental issues
BIOL	101L	Concepts and Applications in Biology Lab		Sustainability-Inclusive	A laboratory which accompanies Biology 101. Laboratory - 3 hours per week.
BIOL	102	Concepts and Applications in Biology 2		Sustainability-Inclusive	This is a non-science majors' course, which will provide a background for understanding and evaluating contemporary topics in biology and societal/environmental issues.

BIOL	102L	Concepts and Applications in Biology II Lab		Sustainability-Inclusive	A laboratory which accompanies Biology 102. Laboratory - 3 hours per week.
BIOL	111	Intro to Cell and Molecular Biology	Miranda McManus	Sustainability-Inclusive	A foundation course for science majors emphasizing the concepts of structure and function in biological systems at the molecular and cellular levels.
BIOL	111L	Introduction to Cell and Molecular Biology Lab		Sustainability-Inclusive	Laboratory course to accompany BIOL 111.
BIOL	112	Evolution, Form and Function of Organisms	Deborah Bidwell	Sustainability-Inclusive	A foundation course for science majors providing an introduction to evolution and a study of the major groups of organisms with an emphasis on their structure, form, and function
BIOL	112L	Evolution, Form and Function of Organisms Lab		Sustainability-Inclusive	Laboratory course to accompany BIOL112.
BIOL	204	Humans and the Environment		Sustainability-Focused	A study of human dependence and impact on the natural environment. Topics will include ecosystem services, land use, pollution, climate change, biodiversity loss, human population synamics. sustainable management of natural resources, science literacy, and other current topics. Lectures three hours per week.
BIOL	209	Marine Biology		Sustainability-Inclusive	An introduction to the study of marine organisms and their environment. Lectures three hours per week; laboratory three hours per week.
BIOL	211	Biodiversity, Ecology, and Conservation Biology		Sustainability-Inclusive	Students will explore synthetic biological concepts, including population genetics, population dynamics, community and ecosystem ecology, biodivesity, and conservation.
BIOL	211D	Biodiversity, Ecology, and Conservation Biology Discussion		Sustainability-Inclusive	Discussion section to accompany BIOL211.
BIOL	213	Marine Biodiversity, Ecology, and Conservation Biology		Sustainability-Focused	An intermediate-level foundation course intended for marine biology majors. Students will explore synthetic marine biological concepts, including population genetics, population dynamics, community and ecosystem ecology, phylogenetics, biodiversity, and conservation. In a weekly, three-hour discussion section, students will analyze scientific literature, formulate research questions, work with biological data, and write for a scientific audience.
BIOL	213D	Marine Biodiversity, ecology, and Conservation Biology Discussion		Sustainability-Inclusive	Discussion section to accompany BIOL 213.
BIOL	300	Botany		Sustainability-Inclusive	Gross morphology, life history, taxonomy, and evolution of representative algae, fungi, bryophytes, and vascular plants. Lecture three hours per week; laboratory three hours per week.
BIOL	301	Plant Taxonomy		Sustainability-Inclusive	The collection, identification, and classification of vascular plants, with special emphasis on local flora. Students will have practice in the use of keys and herbarium techniques. Lectures three hours per week; laboratory three hours per week.
BIOL	304	Environmental Plant Physiology		Sustainability-Focused	A study of plant function. Topics will include water relations, photosynthesis, carbohydrate transport and allocation, growth and development, mineral nutrition, biotic interactions, and stress physiology. Topics will be presented in the context of environmental changes and through the lens of environmental, economic, and social aspects of sustainability. Lectures three hours per week; laboratory three hours per week.
BIOL	304L	Environmental Plant Physiology Lab		Sustainability-Focused	Laboratory course which accompanies BIOL 304.
BIOL	305L	Genetics Lab		Sustainability-Inclusive	An introduction to the principles of heredity using common experimental organisms. Recent techniques in molecular genetics are also covered. Laboratory three hours per week.
BIOL	310	General Microbiology		Sustainability-Inclusive	An introduction to the microbial world with special emphasis on bacteria. Topics include cellular structures, bacterial metabolism, microbial genetics, bacterial growth and its control, virology and the epidemiology and pathogenicity of disease-producing microorganisms. The laboratory emphasizes proper handling techniques, identification methods, and properties of microorganisms. Lectures three hours per week; laboratory three hours per week.
BIOL	333	Ornithology		Sustainability-Inclusive	An introduction to the biology of birds. Laboratory work will emphasize the identification, classification, behavior and ecology of local species. Lectures two hours per week; laboratory four hours per week
BIOL	334	Herpetology		Sustainability-Inclusive	An introduction to the biology of amphibians and reptiles. Laboratory work will emphasize the identification, classification, behavior and ecology of local species. Lectures three hours per week; laboratory three hours per week.
BIOL	336	Parasitology		Sustainability-Inclusive	Morphology, physiology, epidemiology, ecology and life cycles of parasites of vertebrates and invertebrates. Laboratory will center on living and preserved material and will include methods of fecal, blood, histological and serodiagnostic examinations. Lectures three hours per week; laboratory three hours per week.
BIOL	338	Entomology		Sustainability-Inclusive	A study of the diversity of insects and their lifestyles. Lectures include taxonomic topics covering the orders and the major families of insects, their structure and function, physiology, ecology and the interaction of insects with humans. Laboratory will concentrate on collecting insects in the field, field projects and identifying insects. Lectures three hours per week; laboratory three hours per week.
BIOL	341	General Ecology		Sustainability-Inclusive	Consideration of organisms and their environmental relationships. Lectures three hours per week; laboratory three hours per week.
BIOL	342	Oceanography	Gorka Sancho	Sustainability-Inclusive	Laboratory course which accompanies BIOL 342.
BIOL	342L	Oceanography Lab		Sustainability-Inclusive	Lecture and laboratory work will emphasize the interrelationships of physical, chemical, geological and biological processes in the sea.
BIOL	360	Introduction to Biometry		Sustainability-Inclusive	An introduction to basic statistical methods and their application in the analysis of biological data.
BIOL	404	Applied and Environmental Microbiology		Sustainability-Inclusive	A lecture and laboratory study of the special applications of microbiology to domestic water and wastewater and solid wastes, food and dairy products, agriculture and industrial processes. Includes microbial distribution and its role in various marine and freshwater, terrestrial, animal, atmospheric and product environments. Lectures three hours per week; laboratory three hours per week.

BIOL	406	Conservation Biology	Sustainability-Inclusive	A course exploring the origin, maintenance and preservation of biodiversity at all levels: genetic, population, community, ecosystem and biosphere. The focus will be on applying ecological, genetic and evolutionary principles to problems in conservation. Optional field trips will make use of the rich biota of the Charleston area.
BIOL	413	Marine Conservation Genetics	Sustainability-Inclusive	This course will introduce genetic tools and analyses and how they have been applied to habitat conservation, harvesting, captive breeding programs, invasive species, and forensics in the marine environment.
BIOL	413L	Marine Conservation Genetics Lab	Sustainability-Inclusive	This laboratory course provides hands-on training of open-source analytical software and published and unpublished datasets that focus on genetic tools and analyses and how they have been applied to habitat conservation, harvesting, captive breeding programs, invasive species, and forensics.
BIOL	415	Biomimicry	Sustainability-Focused	A rigorous study of biomimicry's essential elements including the human-nature relationship, life's unifying principles, regenerative ethos, and the emulation of natural mechanisms through the integration of Biomimicry Thinking methodology. This project-based course explores learning from the biodiversity of living systems as mentor, model, and measure for nature-positive innovation.
BIOL	427	Marine Tetrapod Biology	Sustainability-Inclusive	This course explores the complex ecology, morphology, physiology, behavior and conservation of marine reptiles, birds, and mammals of the South Carolina Lowcountry.
BIOL	432	Biology of Fishes	Sustainability-Inclusive	A brief survey of gross morphology with emphasis on the structures used in identification, and more detailed considerations of some of the aspects of physiology, ecology, life histories and behavior.
BIOL	435	Marine Botany	Sustainability-Inclusive	Introduction to taxonomy, morphology, phylogeny, and ecology of marine plants. Major groups of seaweeds and planktonic algae from the coast of South Carolina will be emphasized. Lectures three hours per week; laboratory three hours per week.
BIOL	437	Biology of Invertebrates	Sustainability-Inclusive	Classification, morphology, physiology, behavior and life histories of invertebrates. Laboratory work will emphasize the study of living material from the local fauna. Lectures three hours per week; laboratory three hours per week.
BIOL	444	Plant Ecology	Sustainability-Inclusive	Plant Ecology will explore the population ecology of plants covering the genetic, spatial, age and size structure of plant populations. The focus will be on understanding the origin of these different kinds of structures, understanding how they influence each other and understanding why they change with time.
BIOL	449	Biology of Coral Reefs	Sustainability-Inclusive	An introduction to the biology and ecology of reef-building corals and coral reefs. Topics to be covered include coral ecology (physical environment, nutrition, reproduction, growth, population structure), taxonomy, systematic, diversity, biogeography, reef-building processes, and natural and human induced disturbances.
BIOL	454	Special Topics in Biology	Sustainability-Focused	Special studies designed to supplement an offering made in the department or to investigate an additional specific area of biological research.
BIOL	506	Conservation Biology	Sustainability-Inclusive	A course exploring the origin, maintenance, and preservation of biodiversity at all levels: genetic, population, community, ecosystem and biosphere. The focus will be on applying ecological, genetic, and evolutionary principles to problems of conservation. Optional field trips will make use of the rich biota of the Charleston area.
CHEM	101	General Chemistry	Sustainability-Focused	Emphasis is placed on basic chemistry concepts, giving the student a strong background in a variety of topics in order to appreciate the role of science and particularly chemistry in modern-day life.
CHEM	101L	General Chemistry Lab	Sustainability-Focused	A laboratory program to accompany CHEM 101. Experiments are designed to introduce students to chemical techniques and to illustrate concepts covered in the classroom. Laboratory three hours per week.
CHEM	102	Organic and Biological Chemistry	Sustainability-Inclusive	This course is designed to meet the needs of allied health students, but it is also suitable for any non-science major. This is a descriptive course that covers organic and biological chemistry. Topics include organic functional groups, reactions, carbohydrates, lipids, proteins, nucleic acids, and metabolism. Lecture three hours per week.
CHEM	102L	Organic and Biological Chemistry Laboratory	Sustainability-Inclusive	A laboratory program to accompany CHEM 102. Designed to enhance chemical laboratory skills and to illustrate the concepts covered in CHEM 102. Laboratory three hours per week.
CHEM	111	Principles of Chemistry	Sustainability-Focused	An introductory course in chemistry emphasizing theoretical aspects and designed primarily for students who intend to take one or more additional courses in chemistry. Lectures three hours per week.
CHEM	111L	Principles of Chemistry Laboratory	Sustainability-Focused	A laboratory course designed to introduce students to the application of the scientific method in solving chemical problems and to acquaint them with specific tools and techniques used in the chemistry laboratory, while reinforcing and illustrating concepts encountered in lecture. Laboratory three hours per week.
CHEM	112	Principles of Chemistry	Sustainability-Inclusive	An introductory course in chemistry emphasizing theoretical aspects, designed primarily for students who intend to take one or more additional courses in chemistry. Lectures three hours per week.
CHEM	112L	Principles of Chemistry Laboratory	Sustainability-Inclusive	A laboratory course designed to introduce students to the application of the scientific method in solving chemical problems and to acquaint them with specific tools and techniques used in the chemistry laboratory, while reinforcing and illustrating concepts encountered in lecture. Laboratory three hours per week.
CHEM	220	Fundamentals of Analytical Chemistry	Sustainability-Inclusive	A study of the fundamentals of analytical chemistry with special attention given to quantitative analysis including volumetric analysis, electrochemical measurements, optical spectroscopy, chromatography, quality assurance, calibration methods, and statistical treatment of data.
CHEM	220L	Fundamentals of Analytical Chemistry Lab	Sustainability-Inclusive	A laboratory program to accompany CHEM 220. Laboratory six hours per week.

CHEM	231	Organic Chemistry		Sustainability-Inclusive	An introduction to the chemistry of carbon-containing compounds. A systematic study of nomenclature, structure, properties, and reactions of aliphatic and aromatic compounds. Attention is given to recent developments and interpretation of structure and reaction mechanisms. Lecture three hours per week. The Honors version of this course is HONS 192. Students may not receive credit for both.
CHEM	231L	Introduction to Organic Chemistry Laboratory Techniques		Sustainability-Inclusive	Theories underlying standard organic laboratory techniques are introduced. The student then applies these methods to the synthesis, isolation and purification of representative organic compounds. The student is introduced to the use of instrumental and spectral methods in organic chemistry.
CHEM	421	Instrumental Methods of Analysis		Sustainability-Inclusive	Theory and principles underlying the techniques of modern analytical chemistry. Topics include qualitative and quantitative analysis using chromatrographic, spectrophotometric, electroanalytical, magnetic resonance, radiochemical and other selected instrumental techniques. Lectures three hours per week.
CHEM	421L	Instrumental Lab		Sustainability-Inclusive	A laboratory to accompany CHEM 421. Laboratory three hours per week.
CHEM	422	Environmental Chemistry		Sustainability-Focused	An introduction to the chemistry of natural systems. The cycling of chemical species, the effect of man-made inputs, and environmental analytical methodology will be stressed. Lectures three hours per week.
CHEM	422L	Environmental Chemistry Laboratory		Sustainability-Focused	An introduction to sampling and measurement techniques used to characterize the environment. Electrochemical, spectroscopic and chromatographic techniques will be used. Laboratory three hours per week.
CHST	240	ST: Chinese Food Culture and the Environment		Sustainability-Focused	
CLAS	322	Mediterranean Landscapes		Sustainability-Inclusive	This course explores the history, theories, and methods of landscape archaeology, and the ways in which it is used to interpret the social, economic, and political structures of the Mediterranean world.
COMM	336	ST: Environmental Communication		Sustainability-Focused	The cycling of chemical species, the effect of man-made inputs, and environmental analytical methodology will be stressed.
CRLS	300	ST: Restorative Justice		Sustainability-Focused	
DATA	101	Introduction to Data Science		Sustainability-Inclusive	An introductory course on the use of computer-based tools and programs such as Python and SQL to analyze data sets for knowledge discovery. Students will explore and learn some of the basic principles and tools in data science. Topics include cleaning, visualizing, and interpreting data, databases, and cloud computing.
DSCI	232	Business Statistics		Sustainability-Inclusive	Advanced statistical analysis with applications in business and economics utilizing relevant computer software. Topics include business applications in descriptive and inferential statistics emphasizing selected topics such as simple and multiple regression, analysis of variance, time series analysis and non-parametric techniques.
DSCI	323	Computer-Based Decision Modeling		Sustainability-Inclusive	This course provides students with advanced knowledge and skills in the application of spreadsheet software to support information management, decision making, and problem-solving in business. Emphasis is placed on understanding various decision models and applying spreadsheet software to model building, data analysis, decision support, and custom application development.
ECON	101	Introduction to Economics		Sustainability-Inclusive	This course covers the history of the development of present-day economic society, as well as considers issues and problems facing the economy, including policies directed at affecting inflation, unemployment and recession, and international trade.
ECON	200	Principles of Microeconomics		Sustainability-Inclusive	The structure of the market is presented, including product and factor pricing, allocation of resources and distribution of income, market equilibrium analysis, and analysis of domestic and international problems and policies.
ECON	201	Principles of Macroeconomics		Sustainability-Inclusive	The foundation of aggregate economic analysis is presented, including identification of basic social goals, money and credit systems, and theories of national income, employment and economic growth, and international interdependence.
ECON	303	Economics of Transportation and Geography		Sustainability-Inclusive	This is a combination of two traditional course offerings intended to provide the economic theory, conceptual foundations, and practical understanding of economics as applied to both transportation and geography.
ECON	307	Urban Economics		Sustainability-Inclusive	An examination of the economics of spatial organization focusing on the location of economic activity and the growth of cities and regions. This course will provide a theoretical and empirical basis for analyzing contemporary urban issues.
ECON	311	Environmental Economics		Sustainability-Focused	This course deals with the institution of property rights and how the absence of property rights may hinder the proper allocation of society's scarce resources and thereby affect economic efficiency.
ECON	325	Economics for Development		Sustainability-Inclusive	An analysis of international poverty and inequality, dualistic development, the employment problem, mobilization of domestic resources, mobilization of foreign resources, human-resource development, agricultural strategy, industrialization strategy, trade strategy, development planning, and policy making.
ECON	340	Public Finance		Sustainability-Inclusive	A study of the economics of public goods theory, externalities, and public choice theory. Students will examine the cost and benefit analysis of taxation and expenditures. Public decision making at all levels of government will be examined, and the intervention of government into the market economy.
EDEE	367	Teaching Science: Pre K- Grade 3		Sustainability-Inclusive	This course is designed for the study and practice of teaching methods and materials for science at the early childhood school levels
EDEE	468	Teaching Science in Grades 2-8	William Veal	Sustainability-Inclusive	This course focuses on developmentally appropriate instructional strategies linked to the grades 2-8 content and process standards
EDMG	335	Teaching Writing/ Design with Adolescent Literature		Sustainability-Inclusive	The course will explore adolescent print, visual, and digital texts, and differentiated contexts that support middle grades writing instruction. A variety of popular and academic writing genres and tools will be addressed.

ENGR	321	Human Factors Engineering	Sustainability-Inclusive	Human factors design principles and the nature of human interaction with their physical work environment are covered, including topics in cognitive engineering, ergonomics, system design, and the nature of human performance in the workplace.
ENTR	200	Entrepreneurship Theory and Practice	Sustainability-Inclusive	This course provides an introduction to theoretical and experiential issues in entrepreneurship including the language of entrepreneurship, creativity and innovation, lean startups, business models, entrepreneurship, and learning from both successful and unsuccessful ventures. Readings, lectures, and live case discussions with entrepreneurs will be used to explore these and related issues.
ENTR	320	New Venture Modeling	Sustainability-Inclusive	This course describes entrepreneurship as a process of economic or social value creation, rather than the single event of opening a business.
ENTR	360	Special Topics in Entrepreneurship	Sustainability-Inclusive	An in-depth treatment of current areas of special concern within the field of entrepreneurship.
ENTR	406	Social Entrepreneurship	Sustainability-Inclusive	This course explores issues in social entrepreneurship such as ways challenges can be addressed by both for-profit and non-profit social enterprises and ways outcomes can be measured to satisfy multiple stakeholders
ENTR	407	Ecopreneurship	Sustainability-Inclusive	This course approaches environmental problems as entrepreneurial opportunities and sees entrepreneurs as influential in creating positive environmental, social and economic change
ENVT	200	Intro to Environmental and Sustainability Studies	Sustainability-Focused	An introduction to interdisciplinary thinking about the relationships between humans and their environments and the practical problems resulting from these relationships. The course considers basic elements in the humanities, social sciences and natural sciences that are essential for understanding interactions of humans with the environment.
ENVT	210	Sustainable Humanities	Sustainability-Focused	This course introduces students to an exploration of sustainability from interdisciplinary environmental humanities perspectives. Students will apply, analyze, and evaluate knowledge from various humanities disciplines, including environmental ethics, ecocriticism, environmental psychology, and gender studies, covering various cultural contexts and geographic regions, past and present, to better understand sustainability and today's social, environmental, and economic problems and solutions to those problems. Students will examine how various worldviews, narratives, and understandings of humans inform both unsustainable and sustainable behaviors, from individual to community levels.
ENVT	336	Environmental Communication	Sustainability-Focused	This course introduces students to the interdisciplinary field of environmental communication and engages students in identifying, analyzing, and proposing solutions to communication problems related to the intersection of the environment, economics, and social justice. The course explores discourses around the environment and sustainability, including historical, legal, and technological context and rhetorical frames used by governments, corporations, social movements, and everyday people. Students will explore the role of communication in the public sphere and the power of cultural symbols and messages to shape discourses and practices related to the environment and sustainability.
ENVT	350	Independent Study	Sustainability-Focused	A directed research project on some dimension of environmental science and studies, approached from an interdisciplinary perspective.
ENVT	352	Special Topics in Environmental and Sustainability Studies	Sustainability-Focused	An interdisciplinary study of a particular area of environmental concern. Topics will vary.
ENVT	355	Internship in EVSS	Sustainability-Focused	Students apply knowledge learned in the classroom to a field experience with an organization that works on environmental issues. The internship involves substantial work with an organization, scheduled meetings with the program coordinator, and a significant writing project.
ENVT	360	Sustainability Practices in Context	Sustainability-Focused	This course introduces students to an exploration of sustainability in an experiential setting. Students will apply knowledge from various disciplines to analyze complex environmental and/or sustainability problems and solutions in applied settings. Students will visit field sites, businesses, intentional communities, governmental agencies, and/or non-governmental organizations in various domestic or international contexts and interact with people in those settings, to learn about the challenges and successes they face in translating sustainability into lived behaviors and organizational shifts. Course includes a study away component.
ENVT	363	Race, Gender, and Environment	Sustainability-Focused	This course will explore environmental crises that disproportionately affect under-resourced communities and communities of color. The course centers the contributions of African Americans, Indigenous peoples, women of color and feminists to examine the ways in which interlocking social forces of oppression such as racism, sexism and settler-colonialism shape ecological problems.
ENVT	395	Seminar in Environmental and Sustainability Studies	Sustainability-Focused	An interdisciplinary seminar on current environmental issues.
ENVT	415	Biomimicry	Sustainability-Focused	A rigorous study of biomimicry's essential elements including the human-nature relationship, life's unifying principles, regenerative ethos, and the emulation of natural mechanisms through the integration of Biomimicry Thinking methodology. This project-based course explores learning from the biodiversity of living systems as mentor, model, and measure for nature-positive innovation.
ENVT	452	Advanced Speical Topics in Environmental and Sustainability Studies	Sustainability-Focused	An advanced interdisciplinary course investigating a particular topic within environmental and sustainability studies. Topics will vary.
ENVT	460	Experiential Topics in Environmental and Sustainability Studies	Sustainability-Focused	An advanced interdisciplinary course investigating a particular topic within applied environmental and sustainability studies. Includes a significant experiential learning component through community engagement or other forms of active participation in initiatives designed to address environmental or sustainability issues. Topics will vary.

ENVT	490	Capstone in Environmental and Sustainability Studies	Sustainability-Focused	This course provides a capstone experience in which Environmental and Sustainability Studies majors synthesize and apply their learning in the context of relevant theory in the field and engage in professional development to prepare for post-graduation plans. Students will complete readings, discussions, and a semester-long project as the culmination of their academic experience in Environmental and Sustainability Studies and will reflect on their experiences and accomplishments to develop a professional identity. Students will complete the capstone with an e-portfolio that articulates and demonstrates the competencies, skills, and knowledge they have mastered as an Environmental and Sustainability Studies major.
ENVT	499A	Bachelors Essay	Sustainability-Inclusive	Semester one of a two semester intensive research and writing course for accomplished and motivated upper-level students under the close supervision of a faculty member in the department or program. Students must take the initiative in seeking a faculty member to help in the design and supervision of the project. This is an individual enrollment course, and registration is carried out by the faculty mentor.
EVSS	502	Geospatial Science	Sustainability-Inclusive	The course introduces the concepts of geographic information systems and Remote Sensing. Students will understand the operational processes of spatial data acquisition, metadata development, geodatabase design, and preliminary GIS application development, cartographic mapping and dynamic visualization, GIS implementation basics and global positioning systems.
EVSS	502L	Geospatial Science Lab	Sustainability-Focused	Laboratory section to accompany EVSS 502.
EVSS	506	Conservation Biology	Sustainability-Focused	A course exploring the origin, maintenance, and preservation of biodiversity at all levels: genetic, population, community, ecosystem, and biosphere. The focus will be on applying ecological, genetic and evolutionary principles to problems in conservation. Optional field trips will make use of the rich biota of the Charleston area.
EVSS	518	History and Theory of American Urban Planning	Sustainability-Inclusive	This course addresses the historical and theoretical underpinnings of urban and regional planning in the United States as it has evolved since the mid-nineteenth century. This course serves as a vehicle to examine the changing nature of the relationship between planning and urban economic development and public policy.
EVSS	519	Biology of Coral Reefs	Sustainability-Focused	An introduction to the biology and ecology of reef-building corals and coral reefs. Topics to be covered include coral ecology (nutrition, reproduction, population structure, and distribution), taxonomy and systematics, biogeography and reef-building processes. The course will also cover natural and human induced disturbances on coral reefs and discuss exploitation and coral reef management options.
EVSS	529	Community Planning	Sustainability-Inclusive	This course is a survey of the field of community planning in urban and rural contexts. Topics may include urbanism, ruralism, sustainability and environmental planning, historic preservation, design, public art, economic (re)development, among others. Various approaches to community planning will be explored including top-down/bureaucratic community planning and grassroots/bottom-up community planning.
EVSS	534	Environmental Law and Regulation Policy	Sustainability-Focused	This course examines the development of environmental law and regulatory policy in the United States. It provides an overview of the scope and substance of environmental law and the various regulatory techniques they employ. Both criminal and civil litigation surrounding the implementation of environmental law are examined.
EVSS	535	Land Use Law	Sustainability-Focused	This course examines zoning and land use control in the United States and incorporates illustrations and cases from South Carolina in particular. It focuses on enabling legislation for local governments, regulation, the process of development, eminent domain, contract and conditional zoning and enforcement and violation of land use regulations.
EVSS	541	Pollution in the Environment	Sustainability-Focused	Course focuses on theoretical and quantitative skills required to assess how natural and anthropogenic factors influence pollutant behavior in Earth's near- surface environments, including fresh water and soils. Laboratory focuses on assessing pollutants in various environmental media using appropriate analytical techniques.
EVSS	541L	Pollution in the Environment Lab	Sustainability-Focused	Laboratory section to accompany EVSS 541.
EVSS	542	Fundamentals of Remote Sensing	Sustainability-Focused	Course includes fundamentals of remote sensing and digital image processing for applications in earth and environmental sciences, including concepts of electromagnetic radiation, satellite image data collection, reduction and application, software tools, data acquisition, and ground truthing. Lectures: three hours per week; laboratory: three hours per week.
EVSS	544	Plant Ecology	Sustainability-Focused	Plant ecology will explore the population ecology of plants covering the genetic, spatial, age, and size structure of plant populations. The focus will be on understanding the origin of these different kinds of structures, understanding how they influence each other, and understanding why they change with time.
EVSS	544L	Plant Ecology Lab	Sustainability-Focused	Laboratory section to accompany EVSS 544.
EVSS	549L	Geographic Information Systems Lab	Sustainability-Focused	This course will cover spatial types and quality, data input operations, database management, data analysis, and software design concerns. We will also examine institutional and political concerns for using GIS. Computer-based GIS software (Unix, PC, and Mac) will be used throughout the course.
EVSS	551	Research and Management in Envionmental Organizations	Sustainability-Focused	This course examines the conduct and use of applied research in environmental organizations. Topics include the role of scientific information in policy definition and administration, the use and misuse of research data, the prospects for meaningful program evaluation and policy learning, and the influence of alternative organizational structures on the use of information.
EVSS	552	Managing Resilient Landscapes	Sustainability-Focused	This course reviews a systems approach to understanding social-ecological change, and how government agencies and institutions are implementing theories of "resilience" to manage for change across landscapes. Students will review theoretical and applied literature, case studies, and the practices of adaptive management under conditions of uncertainty.

EVSS	595	Special Topics in Environmental and Sustainability studies	Sustainability-Focused	An intensive study of an approved special topic in the field of environmental and sustainability studies. Special topics are designed by the faculty to serve current and emerging interests while adhering to the mission of the program.
EVSS	595	ST: Characterization in Oceanographic Mapping	Sustainability-Inclusive	
EVSS	595	ST: Grant Writing	Sustainability-Inclusive	
EVSS	601	Economic Theory for Policy Analysis	Sustainability-Inclusive	This course covers the application of microeconomic theories to the analysis of contemporary public sector issues, with an emphasis on environmental problems. Attention is given to the conceptual and practical problems associated with resource allocation decisions when there is conflict among efficiency, equity, and limited information in policy making. The foundations of welfare economics and applications of cost-benefit analysis as they relate to specific environmental policies and programs are examined as well.
EVSS	602	Public Policy	Sustainability-Inclusive	This course seeks to develop a firm understanding of the public policy-making process in the United States. Students study policy making through various perspectives on implementation. The roles of major institutions including the executive, legislative and judicial branches of government, the bureaucracy and interest groups in this process are addressed. Includes various perspectives and interpretations of policymaking, including incrementalism, rationalism, pluralism and elitism. Selected areas of public policy, including transportation, poverty, energy and the environment are used to illustrate both the process and the different perspectives.
EVSS	610	Environmental Biology	Sustainability-Focused	This course emphasizes the application of fundamental toxicological and microbiological concepts to problems which exist in the real world. The course should prepare the student interested in environmental problems with the necessary practical information to make sound judgments in assessing meaningful solutions to existing environmental problems.
EVSS	611	Intro to Environmental and Sustainability Studies	Sustainability-Focused	This class will offer an introductory review of the environmental and sustainability studies discipline and practice, including interdisciplinary scholarship, career opportunities, in public, nonprofit, and private sectors, and contemporary challenges in policy and administration.
EVSS	624	Biometry	Sustainability-Inclusive	A broad treatment of statistics concentrating on specific statistical techniques used in biological research. Topics covered include sampling procedures and analysis of distributions (binomial, poison, and normal), hypothesis testing and estimation with emphasis on analysis of frequencies, regression and correlation. Several nonparametric and multivariate methods are also discussed. Emphasis is on application of statistical techniques and not theory; therefore knowledge of mathematics through calculus is expected.
EVSS	624L	Biometry Lab	Sustainability-Inclusive	Laboratory section to accompany EVSS 624.
EVSS	632	Social Science Methods in Environmental Science	Sustainability-Focused	This course will introduce students to social science methodologies used to understand humans' relationships to the environment. The course will provide a basic understanding of the practice of collecting both quantitative and qualitative social science data, developing mixed-methods or interdisciplinary projects, and train students on how to interpret such data.
EVSS	640	Earth System Science	Sustainability-Inclusive	The study of Earth Systems Science demonstrates the interplay of the biosphere, lithosphere, hydrosphere, atmosphere and the anthroposphere, and highlights the complexity and multi-disciplinary nature of environmental challenges. Knowledge of the features of these systems is applied to understand Earth's energy budget and biogeochemical cycles, including the role of humankind to cause change from local to global scales and affect the "safe operating space for humanity."
EVSS	645	Coastal Issues and Processes	Sustainability-Focused	This course provides an in-depth understanding of the coastal environment, including coastal policies and environmental issues that result from the activity of humans. Subjects include: origin of coastlines, physical processes, coastal hazards and coastal zone management.
EVSS	659	Environmental Statistics	Sustainability-Focused	This course provides an introduction to environmental statistics and risk assessment. Topics include probability, correlation, regression, hypothesis testing, analysis of variance, model testing, residual analysis, and nonparametric models. Environmental applications will be provided throughout the course.
EVSS	671	Biodiversity Management	Sustainability-Focused	This course reviews the methods to measure and manage biological diversity in an era of rapid change. Through international case studies, students will review how a biodiversity framework guides sustainable resource management, such as in endangered species recovery, invasive species management, wildlife trade regulations, coastal resiliency, and a variety of marine and terrestrial conservation programs.
EVSS	671L	Biodiversity Management Lab	Sustainability-Focused	This field-based laboratory course introduces students to the sites across the Lowcountry where biodiversity management takes place. Students will be evaluated on their field notes and participation. This is an optional co-requisite course with EVSS 671, Biodiversity Management.
EVSS	679	Cultures, Economies, Environmental Governance	Sustainability-Focused	This class critically examines the relationship between humans and their environments, focusing on how diverse social systems develop multi-scale interdependencies with the environment. Topics include cultural and political ecology, international sustainable development, and engage social theories to analyze these phenomena, such as postcolonialism, poststructuralism, Marxism, and feminism.
EVSS	680	Case Studies in Environmental Issues	Sustainability-Focused	This course investigates specific case studies. Case studies impart a unique opportunity to explore basic principles of biology, chemistry, geology and physics through practical applications. This approach to problems will be a similar to that used by the practitioners of science and public policy.
EVSS	691	Thesis	Sustainability-Focused	
EVSS	693	Independent Study	Sustainability-Focused	An individual, directed study of an environmental issue in the area of risk assessment, policy, or science. Topic and project outline must be approved by the Program of Study Committee.
EVSS	726	Fisheries Science	Sustainability-Focused	A general introduction to methods of harvesting aquatic resources and collection and evaluation of biological data to effectively manage these resources. Topics include age and growth analysis; mortality, recruitment, and yield; production and early life history; stock assessment techniques; and a detailed study of certain important fisheries.

EVSS	746	Aquatic Toxicology		Sustainability-Focused	An introduction to assessing the effects of toxic substances on aquatic organisms and ecosystems. Topics include general principles of toxicology, fate and transport models, quantitative structure-activity relationships, single-species and community-level toxicity measures, regulatory issues, and career opportunities. Examples will be drawn from marine, freshwater and brackish-water systems.
EXSC	355	Exercise Psychology		Sustainability-Inclusive	The major objective of this course is to assist the student in gaining an understanding and appreciation of the physiological and metabolic adaptations accompanying physical work.
FINC	303	Business Finance	Marcia Snyder	Sustainability-Inclusive	I cover 12 chapters and incorporate sustainable finance into all but one. In the first chapter, I provide an overview of climate change and some of the basic science using NASA's Vital Signs website. I discuss the triple bottom line and various accounting and reporting methods for firms. A significant number of new products and developments have become available to businesses, enabling them to become more sustainable. Bloomberg Green Newsletters are required reading, and written papers on the newsletter topics are assigned every other week.
FREN	201	French through Culture	Juliette Bourdier	Sustainability-Inclusive	In this 202 course, we address four topics during the semester. 1) Ecology and sustainable development. Theories and awareness. Examples, with a specific emphasis on hidden pollution (countryside, Internet, pets, food waste...) Solutions (case study on Algae and seaweeds) 2) Eco-tourism (study cases, behavior, solutions) 3) Eco-Art (the 3 functions of Eco-Art, as an ecologic or social tool) 4) Inclusiveness (theory -exclusion, segregation, discrimination, integration, diversity, inclusion), case study inclusion in a school with a reader.
FREN	202	Intermediate French Through Sustainable Culture	Juliette Bourdier	Sustainability-Inclusive	A follow-up to FREN 201, this course continues to develop proficiency in French, with emphasis on the learning of basic language skills (listening, speaking, reading, and writing) and on the cultural competence and understanding of practices, products, and perspectives of French-speaking countries.
FYSE	108	Biomimicry: Nature as Mentor		Sustainability-Inclusive	First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the library, computing facilities, advising, and other student support services.
FYSE	138	Beat the Carbon Clock!		Sustainability-Focused	First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the library, computing facilities, advising, and other student support services.
FYSE	142	Sustainable Seas: Navigating Environmental and Social Issues in Modern Fisheries	Nick Principe	Sustainability-Focused	First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the library, computing facilities, advising, and other student support services.
FYSE	142	Connecting with Nature in the Modern World	Nick Principe	Sustainability-Focused	First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the library, computing facilities, advising, and other student support services.
FYSE	142	Bicycles as Tools of Societal Evolution in the Lowcountry and Beyond	Sylvie Baele	Sustainability-Focused	First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the library, computing facilities, advising, and other student support services.
FYSE	143	Full STEM Ahead! Exploring Charleston Harbor’s Mysteries and Sustainability Challenges	Geoff Timms	Sustainability-Focused	First-Year Seminars focus on topics within or across the disciplines of study in the College curriculum. Seminars introduce students to the discipline, its ways of thinking and methods of conducting research. Seminars also address the needs of first-year students: introducing students to the College's liberal arts and sciences curriculum and to resources such as the library, computing facilities, advising, and other student support services.
GEOG	101	World Regional Geography		Sustainability-Inclusive	This course introduces students to the key concepts of geography through the lens of different regions of the world. Students explore the dynamics of human existence in different settings, arriving at a holistic understanding of life in the region by considering the interaction of physical and human geographies. The focus is on diversity amid the commonalities of human experience.
GEOG	206	Doing Research in Politics: Introduction to Qualitative Research		Sustainability-Inclusive	This course introduces students to the qualitative methods that researchers use to collect and analyze data and to make causal inferences about political phenomena.
GEOG	219	Reading the Lowcountry Landscape		Sustainability-Inclusive	The course takes holistic approach to understanding the Lowcountry by exploring the various processes (such as environmental, political, cultural and economic) that have shaped the region.
GEOL	103	Environmental Geology		Sustainability-Focused	The study of plate tectonics, volcanism, and surficial geological processes provides the foundation to examine geological hazards, environmental changes, and earth resources. The students’ understanding the principles of geology will aid them to understanding practical solutions to environmental problems and resource depletion. Lectures three hours per week.
GEOL	103L	Environmental Geology Lab		Sustainability-Focused	A laboratory course to accompany GEOL 103. Laboratory three hours per week.
GEOL	105	Earth History		Sustainability-Inclusive	An overview of the 4.5 billion-year history of our planet as revealed by analysis and interpretation of the geologic and paleontologic record preserved in rocks of the earth’s crust. Lectures three hours per week.

GEOL	105L	Earth History Laboratory	Sustainability-Inclusive	A laboratory course to accompany GEOL 105. Laboratory: three hours per week.
GEOL	107	Introduction to Coastal Marine Geology	Sustainability-Inclusive	This course introduces students to the geological processes that form, shape and modify the world's ocean basins and the sediments contained within. Coastal and deep marine depositional environments will be examined from both a modern and ancient perspective.
GEOL	213	Natural Hazards	Sustainability-Focused	Case studies of specific events will be used to highlight the social, economic, environmental and human impacts.
GEOL	235	Geology and Civilization	Sustainability-Inclusive	In this course students will examine the affects geologic phenomena have had on the development of some classical societies. We will delve into the geology behind these phenomena, learn how to identify geological events in the soil/rock record, and then critically examine how these phenomena may have affected trade, agriculture, power, resources and more.
GEOL	239	Introduction to Seafloor Mapping	Sustainability-Inclusive	Students will learn the basic theory behind multibeam sonar mapping of seafloor depths (bathymetry), and become experienced in the use of state-of-the-art data processing software. The course is taught as an Express class, and includes a one-day weekend training workshop.
GEOL	250	Introduction to Geochemistry	Sustainability-Inclusive	Introduces basic chemical principles required to understand fundamental geological and environmental processes. Topics include principles and environmental applications of inorganic, organic, aqueous, and isotope geochemistry. Students will develop requisite theoretical and practical skills to qualitatively and quantitatively solve geological and environmental problems. Lecture three hours per week; laboratory three per week.
GEOL	250L	Introduction to Geochemistry Lab	Sustainability-Inclusive	Laboratory section to accompany GEOL 250.
GEOL	253	Earth System Science	Sustainability-Inclusive	An inspection of the processes, interactions, and feedbacks between the atmosphere, hydrosphere, lithosphere, biosphere, anthroposphere, and exosphere. An application of geosciences, chemistry, physics, biology, and mathematics considering the Earth as an integrated system in order to determine the past, current and future states of the Earth and its sustainability. Lecture three hours per week; laboratory three hours per week.
GEOL	257	Marine Geology	Sustainability-Inclusive	A study of geological processes at work in the sea. Discussion of the various marine environments ranging from the nearshore estuarine and coastal environments to those of the deep ocean basins. Lectures three hours per week; laboratory three hours per week.
GEOL	272	Stratigraphy and Sedimentation	Sustainability-Inclusive	This course will introduce students to the various stratigraphic principles, relationships and analyses used by geologists to interpret sedimentary rock sequences. Students will also be introduced to sedimentary processes and properties that can be used to identify and interpret sedimentary environments in the stratigraphic record. Lectures three hours per week; laboratory three hours per week.
GEOL	275	Geomorphology	Sustainability-Inclusive	An introduction to the understanding of geomorphic principles used to interpret the evolution of landforms and the geomorphic history of different regions of the United States. Practical applications to such fields as groundwater hydrology, soil science and engineering geology. Laboratory sessions will deal with the interpretation of aerial photographs, soil maps and topographic maps. Lectures three hours per week; laboratory three hours per week.
GEOL	288	Global Change: An Geological Perspective	Sustainability-Inclusive	The Earth's climate has changed throughout its history and it will change in the near future. The class draws from geology, chemistry, meteorology, and oceanography to explore the geological record and the contemporary Earth System processes to provide students with an understanding of the complexity of global change.
GEOL	291	Water Resources	Sustainability-Inclusive	Water resources topics including hydrology, ground water, water quality, and aquatic remote sensing fundamentals are covered in this course. Focus will be on developing requisite theoretical and practical skills to understand challenges faced in the field of water resources today. Lecture three hours per week; laboratory three hours per week.
GEOL	303	Independent Study in Geology	Sustainability-Inclusive	An independent research project in which a student works on a research topic under the supervision of a faculty member. The faculty member will help to design and supervise the project. A project proposal will be drafted and approved by both the faculty member and the student researcher, and approved by the department chairman.
GEOL	312	Environmental Field Methods	Sustainability-Inclusive	Professional geologists are required to interpret geologic and hydrogeologic data in the context of regulatory policy when attempting to solve environmental problems. This course will provide an introduction and synthesis of field methods and policies typically encountered by environmental geologists in the field, including study of wetlands, ground water flow and quality and assessment of contaminated soil and water. Instruction will include the use of case studies to provide a realistic context for the field studies. Lectures two hours per week; laboratory three hours per week.
GEOL	313	Critical Zone Science	Sustainability-Inclusive	Introduction, discussion and inspection of the critical zone, Earth's realm from the groundwater and geologic foundation up through the top of the vegetation canopy. Environmental processes affecting this zone will be covered with a focus on environmental-human interactions, the role of humans on environmental systems, and how environmental condition affects societal systems.
GEOL	314	Introduction to Remote Sensing	Sustainability-Inclusive	An introduction to the physical fundamentals of remote sensing. The course uses the electromagnetic spectrum as a guide to various sensor systems and designs. Topics include: electromagnetic spectrum, color theory, photographic films, sensor systems and design, data collection, reduction and application, computer software available and data acquisition. Course emphasis is on geologic problems. Lectures three hours per week; laboratory three hours per week.
GEOL	320	Earth Resources	Sustainability-Inclusive	Earth resources including metallic ore deposits, nonmetallic deposits, and energy resources utilized by society are classified and described. The compromises between the environmental impact of resource development and industrialization are also studied from a scientific perspective. Lectures three hours per week.

GEOL	339	Seafloor Research		Sustainability-Inclusive	Students will each conduct research on a portion of the seafloor, using archived acoustic data and state-of-the-art software. They will address scientific questions related to seabed/substrate characteristics such as geomorphology, benthic habitat potential, and geologic origin. Students will prepare their research results for presentation as if they were to attend a national conference.
GEOL	362	Field Studies in Environmental Geosciences	Vijay Vulava	Sustainability-Inclusive	This summer field course will enable students to discover the interconnection between human activities and their impacts on the Earth's systems. The student will typically travel to Colorado to examine changes to the Colorado River as the river flows 1000 miles from its headwaters to the Hoover Dam. The drainage basins of the Green and San Juan Rivers will also be studied. The focus of the students' work will be to assess the sustainable management of geological and environmental resources along the rivers and how shifting climate and increased population has, and will, impact humans that depend on this aquatic resource.
GEOL	364	Field Studies: Environmental Geology and Water Resources in the Developing World		Sustainability-Inclusive	Global water resources are stressed, and many developing nations have urgent challenges facing them for the foreseeable future. India is one such country struggling with water management (too little supply during most part of the year or too much during the monsoon season). In this course, we will travel to locations in the Ganges River (also known as Ganga River) basin to learn how India is managing water resources and planning for a future that may bring more extreme shifts in drought and flood cycles, affecting the nexus of people and the environment.
GEOL	365	Field Studies: Geology and Environmental Geosciences in Africa		Sustainability-Inclusive	This is a three-week field-based course to study geology, earth history and current environmental impacts in South Africa. Various geologic environments, stratigraphy and discussing the geological timescale, plate tectonics, and evolutionary theory. We will investigate environmental issues on water scarcity and quality, including access to potable water in rural communities and human health impacts related to access to clean water. Students will also make observations that provide clues regarding stresses on the environment.
GEOL	385	Internship		Sustainability-Inclusive	A student will gain professional geologic experience with an internship at a private geologic firm or governmental agency. A faculty advisor will be appointed to award the grade received. The student will make all internship arrangements, and a written proposal is required before the start of the internship. A report will be required upon completion of the internship. One hour of credit will be awarded for each 45 hours completed with a maximum of four credits awarded.
GEOL	395	Special Topics		Sustainability-Inclusive	This course will be used to offer an examination of topics in geology at the advanced level in which a regular course is not offered.
GEOL	399	Tutorial		Sustainability-Inclusive	Individual instruction given by a tutor in regularly scheduled meetings (usually once a week).
GEOL	402	Geospatial Science		Sustainability-Inclusive	Students will understand the operational processes of spatial data acquisition, metadata development, geodatabase design, GIS application development, cartographic mapping and dynamic visualization, and GIS implementation
GEOL	402L	Geospatial Science Lab		Sustainability-Inclusive	Laboratory section to accompany GEOL 402.
GEOL	412	Crustal Geophysics		Sustainability-Inclusive	This course introduces students to geophysical techniques and how they are used to constrain subsurface earth structure. The geophysical techniques covered include gravity and magnetism, seismic refraction and reflection and earthquake seismology. The course also features a sequenced writing assignment integrating different geophysical techniques into one crustal model.
GEOL	438	Hydrogeology		Sustainability-Inclusive	An introduction to the historical development, significance, and underlying theory of the controls on groundwater movement and geochemical evolution. Emphasis will be placed on analyzing the dynamics of natural flow systems in a variety of geologic terrains. This analysis will then be used to assess water supply and water quality issues for the purposes of decision making. Lectures three hours per week; laboratory three hours per week.
GEOL	441	Pollution in the Environment		Sustainability-Inclusive	Course focuses on theoretical and quantitative skills required to assess how natural and anthropogenic factors influence pollutant behavior in Earth's near-surface environments, including fresh water and soils. Laboratory focuses on assessing pollutants in various environmental media using appropriate environmental techniques. Lecture three hours per week; laboratory three hours per week.
GEOL	441L	Pollution in the Environment Lab		Sustainability-Inclusive	Laboratory section to accompany GEOL 441.
GEOL	442	Geological Application of Remote Sensing		Sustainability-Inclusive	This course will cover the application of remote sensing to environmental problems. Topics include: remote sensing theory, data collection, reduction and application, computer software tools, data acquisition and ties to geographic information systems (GIS). This course assumes a basic understanding of remote sensing. Lectures three hours per week; laboratory three hours per week.
GEOL	449	Geographical Information Systems		Sustainability-Inclusive	This course will cover spatial data types and quality, data input operations, database management, data analysis, software design concerns and various applications for GIS.
GEOL	469	Advanced GIS - Environmental and Hazards Modeling		Sustainability-Inclusive	Advanced GIS - Environmental and Hazards Modeling is designed to enhance the student's knowledge of and skills in the science and applications of Geographic Information systems. Topics include: Cloud GIS, Model building, Process automation, LIDAR and image processing and FEMA's HAZUS. Lectures three hours per week; laboratory three hours per week.
GEOL	492	Senior Seminar		Sustainability-Inclusive	Weekly seminar to be taken during the calendar year in which a geology major is to graduate. The purpose of the course is to prepare the students for a career in geology and to present recent advancements in the field through seminars and discussions. One hour per week.
GEOL	495	Special Topics: Environmental Engineering and Sciences		Sustainability-Focused	

GRMN	230	Green Germany: Environmentalism and Sustainability in Modern Germany	Sustainability-Focused	This course explores political and environmental issues by examining the roots and culture of environmentalism in Germany, including its long history with recycling and Germans' fascination with, and appreciation of, nature, the Greens political party, and current environmental initiatives and their reception in Germany. The course will also investigate environmental initiatives within other countries in Europe and how European Union regulations have influenced Europe's green innovations. Current green practices within the U.S. and other countries around the world serve as a point of comparison to current practices within Germany and Europe. Course and readings in English.
HIST	215	Native American History	Sustainability-Inclusive	A chronological survey in Native American History north of Mexico to the 21st century. This course examines the Native American contribution to the history of the continent and exposes students to the ethnohistoric method, an approach designed to study the history of people who have left no written record.
HIST	218	The American West	Sustainability-Inclusive	The course surveys the History of the American West to the present and examines key historiographical topics in the field including economics developments, urbanization, conservation, and race relations.
HIST	256	History of Science and Technology	Sustainability-Inclusive	An introduction to the major scientific and technological developments in Western civilization from the ancient world to the present with an emphasis on the development of the scientific method, the Scientific Revolution, the Industrial Revolution and mechanization, and the historical interplay between science, technology, society and thought.
HONS	102	Exploring Ideas in Community	Sustainability-Inclusive	Using a thematic approach (e.g, Sustainability, Women in Leadership, Medical Humanities), students will explore the work of community-based initiatives or professional organizations through readings, guest lectures, event attendance, and small group discussion. Students will work together as a cohort with the guidance of a faculty mentor to analyze the relevance and application of the theme in their own academic and professional endeavors.
HONS	156	Honors Geology II	Sustainability-Inclusive	This class reviews the 4.6 billion-year Earth history revealed by scientific analysis of rocks, the atmosphere, oceans, and fossils. We learn how scientists find and use evidence to understand Earth's history and its life, discuss physical and biological changes over time, explore Earth's major systems to understand how they change and interact, and discuss the fossil record and observe how and why life evolves.
HONS	190	Accelerated General Chemistry	Sustainability-Inclusive	This course covers the content of a typical one-year sequence of general chemistry in a single semester. Topics include stoichiometry, thermodynamics, quantum chemistry introduction, structure and bonding, gas laws, kinetics, redox chemistry and equilibrium. Only students with substantial high school chemistry will be admitted to the course.
HONS	190L	Accelerated General Chemistry Lab	Sustainability-Inclusive	The course covers the content of a typical one-year sequence of a general chemistry in a single semester. Topics include stoichiometry, thermodynamics, quantum chemistry introduction, structure and bonding, gas laws, kinetics, redox chemistry and equilibrium. Only students with substantial high school chemistry will be admitted to the course.
HONS	205	Entrepreneurship Theory and Practice	Sustainability-Inclusive	This course provides an introduction to theoretical and experiential issues in entrepreneurship including the language of entrepreneurship
HONS	250	Honors Colloquium: Special Topics in Diversity and Sustainability	Sustainability-Focused	Courses in this colloquium series examine pressing 21st century problems related to the intersection of social, economic, and environmental systems. Given the complexity of 21st century problems, students will engage literature and perspectives from the humanities, social sciences, natural sciences, public health, and other domains. Students will make sense of and offer possible creative solutions to interlinked issues such as environmental institutional sexism and racism, climate change, biodiversity loss, the tragedy of the commons, inequitable distribution of wealth, and queerphobia. Students will discuss creative problem solving, systems thinking, analytical reasoning, and interdisciplinary thinking and how these may equip students to advocate for resiliency and solutions to these problems. Colloquium courses are writing and reading intensive, discussion-based, and interdisciplinary in nature.
HONS	260	Honors Colloquium: Special Topics in Inquiry, Discovery, and Innovation	Sustainability-Inclusive	Courses in this colloquium series will focus on the discovery of knowledge and its transformation into new insights and innovative ideas. The current worldview of nature and reality is the result of human curiosity, creativity, discovery and innovation. A human drive for understanding the universe underlies the knowledge-generating, transformational process that is constantly at work in our everyday lives. These courses will encourage students to develop an interdisciplinary perspective on enduring questions or critical issues in math and science, work towards finding answers and innovations that allow for a greater understanding of the universe. Colloquium courses are writing and reading intensive, discussion-based, and interdisciplinary in nature.
HONS	390	Honors Impact X	Sustainability-Inclusive	
HONS	390	ST: Environmental Economics, Policy, and Law	Sustainability-Focused	
HPCP	101	Introduction to Historic Preservation	Sustainability-Focused	An inspiring introduction to the history and contemporary practice of historic preservation and heritage management in the U.S. and internationally. The course includes a survey of the content and context of the heritage to be preserved and examines current preservation practices in preserving buildings, landscapes and material culture. Issues related to archeology, architectural history, equity, race, gender, social history and the effects of the above on community planning will be covered.
HPCP	222	Heritage Preservation and Environmental Conservation	Sustainability-Inclusive	This class is a survey of how Heritage Preservation and Environmental Conservation overlap in sustainable practice and theory. Topics include preservation and environmental planning, landscape design, rural preservation, Smart Growth, adaptive reuse of historic buildings, green building and architecture, heritage eco-tourism, historic sties, and global climate change.

HPCP	298	Digital Methods and Communications for Preservation and Community Planning		Sustainability-Inclusive	This course is an introduction to the use of commonly used digital media for preservation and community planning applications. The class will also work on team based projects specifically geared to demonstrate the capabilities of digital design tools. No prior experience is required.
HPCP	300	Project Management for Preservationists		Sustainability-Inclusive	Project management is a specialized field that handles preservation projects centered on safeguarding historical, cultural, or architectural heritage. This involves planning, organizing, coordinating, and overseeing activities to preserve artifacts, structures, sites, and traditions for future generations. Balancing modern techniques and resources with historical integrity poses unique challenges. Expertise in heritage values, history, conservation, and regulations is essential. The objective is to secure heritage assets' durability, accessibility, and historical importance.
HPCP	306	Conservation of Historic Materials		Sustainability-Inclusive	Conservation of Historic Materials focuses on the properties and performance of traditional and historic building materials including wood, paint, brick, mortar, stone and metal. Through lectures, stie visits (including extensive walking) and hands-on opportunities in the lab and field, a basic knowledge will be provided that will allow students to better understand the mechanics of deterioration and choices for treatments for building materials.
HPCP	315	Building Pathology		Sustainability-Inclusive	This studio course will focus on a particular local site as a case study in urban design. Physical, economic, sociological and architectural aspects of the area will be analyzed and proposals for future development will be formulated. This course will include field research, drawing, and basic model building and will include instruction in the areas of design and graphics.
HPCP	325	Community Planning for Preservationists		Sustainability-Inclusive	This course will survey urban planning, including urbanism, the history and mechanisms of planning, special/current topics in planning, and planning theory through the lens of the Historic Preservation and Community Planning Field. We will focus on contemporary sustainability issues including the environmental crises we face, the issues with social equity which are endemic in our society, and the need to generate a sense of community in the built environment. Hands-on experiences will include researching and/or developing a model for "Community Built" action that might influence development in the City of Charleston today.
HPCP	350	Global Issues in Historic Preservation		Sustainability-Inclusive	Class participants will develop an understanding of the challenges facing Historic Preservation practitioners globally by looking at conservation, planning and management methodologies in societies and cultures around the world.
INTB	322	International Business		Sustainability-Inclusive	A study of the environment and operations of international business with emphasis on the nature and scope of international business, the framework of international trade transactions, the nation-state and international business, assessing national environments and managing the multinational enterprise.
INTB	390	International Social Enterprise and Development		Sustainability-Inclusive	The International Social Enterprise and Development (ISED) course will introduce students to the development, planning and managing of social enterprises. Students will have practical experience in a social enterprise and a full cultural immersion in a different country. Prior approval of the ISED proposal is required before course registration.
INTL	100	Introduction to International Studies	Blake Scott	Sustainability-Inclusive	This course introduces a base of knowledge, analytical skills, and a vocabulary of concepts useful for understanding the multi-dimensional concerns of International Studies. Through an examination of international politics, economics, society, history, literature, and environment, this course will enhance the student's appreciation for an International Studies approach to issues associated with global development.
INTL	120	Economics of Globalization		Sustainability-Inclusive	This course introduces topics surrounding economic globalization. It examines the historic and current economic causes and consequences of global integration. Topics include history of globalization, the role of international trade, post-WWII global monetary system and financial integration. It evaluates the arguments on both sides of the globalization debate as well as globalization's effects on domestic economies and policies, labor markets, production, and on the environment (among other topics).
INTL	350	Cross Regional Studies		Sustainability-Inclusive	Recognizing that discrete knowledge of specific local conditions, nation states or regional areas alone are not sufficient to grasp the broader trends and relationships that connect them, cross-regional study seeks to throw attention on the factors that operate simultaneously and synchronously at those levels. Cross-regional study courses will thematically examine the links between these levels of analysis that are manifested in the phenomenon we call globalization.
INTL	495	Environmental Commons in a Global Perspective		Sustainability-Inclusive	
MATH	111	Pre-Calculus Mathematics		Sustainability-Inclusive	A course that emphasizes the function concept. Topics include graphs of functions, the algebra of functions, inverse functions, the elementary functions and inequalities.
MATH	120	Introductory Calculus		Sustainability-Inclusive	This introductory calculus course for students in mathematics and the natural sciences includes the calculus of algebraic, trigonometric, exponential and logarithmic functions. Topics will include limits and continuity, derivatives, the Mean Value Theorem, applications of derivatives, the Riemann integral and the Fundamental Theorem of Calculus. A thorough knowledge of precalculus concepts will be assumed.
MATH	250	Statistical Methods I		Sustainability-Inclusive	Course topics will include descriptive statistics, probability, probability distributions, estimation, hypothesis testing, correlation and simple linear regression. Statistical quality control, analysis of variance and other topics will be introduced as time permits. A statistics software package will be used.
MATH	350	Statistical Methods II		Sustainability-Inclusive	Statistical methods with topics selected from regression, correlation, analysis of variance, nonparametric statistics, and other models.
MGMT	301	Management and Organizational Behavior Management		Sustainability-Inclusive	Organizations are treated as dynamic entities affected by individual and group behavior as well as structural and environmental factors

MGMT	305	The Nexus of Management and Weather		Sustainability-Inclusive	Course examines how businesses in weather-dependent sectors (Insurance, Utilities, Oil/Gas, Agribusiness, Environmental, Shipping, Aviation, Tourism, Construction, Stock Options, Weather Derivatives, Law, Weather Modification/Mitigation, National Defense, Event Planning, etc.) utilize climatological and forecast data to manage risk, people, and logistics. Consumer-driven businesses (retail, restaurants, theaters, etc.) must manage behavior response to weather conditions. Businesses dedicated to weather (forecasting, broadcasting, mitigation, etc.) combine knowledge of business practices and meteorology. Managing climate change will also be addressed. Students learn how to obtain climate/forecast data, assess meteorological impacts to various businesses, and understand the rapid decisions required to manage changing weather.
MGMT	307	Human Resource Management		Sustainability-Inclusive	A review of personnel policy, manpower planning, staffing, training and development, compensation administration and union-management relations.
MGMT	308	Managing Diversity		Sustainability-Inclusive	This course will examine demographic diversity in today's global environment. It will begin by exploring global emigration, immigration and refugee issues from an international business perspective
MGMT	325	International Management		Sustainability-Inclusive	Emphasis is placed on marketing techniques and methods of expanding participation in foreign markets.
MGMT	332	Business Communications		Sustainability-Inclusive	This course develops an understanding of the theory of human communication so that one can apply it in an organizational setting requiring both oral and written expression of properly identified and presented decisions. The course content will include intrapersonal, interpersonal and organizational communication theory; principles of human behavior and their application to business communication; and principles involved in the writing of various letters, memos and reports.
MGMT	342	Project Management		Sustainability-Inclusive	This course will explore the existing project management body of knowledge, the roles and responsibilities of the project manager, and expose students to contemporary tools and techniques utilized in the field. Theories and research will be examined along with best practices and industry needs.
MGMT	345	Leadership		Sustainability-Inclusive	An investigation of the factors that determine leadership with special emphasis on the leader's vision.
MGMT	350	Business, Leadership, and Society		Sustainability-Inclusive	This course explores issues that arise in the context of doing business and leading organizations.
MGMT	401	Organizational Behavior and Change		Sustainability-Inclusive	An experiential learning design for studying the impact individuals, groups and structures have on behavior within the organization for the purpose of applying that knowledge toward improving an organization's effectiveness.
MGMT	402	Leading Organizational Change		Sustainability-Inclusive	This course exposes class members to central issues surrounding the reality of implementing large-scale change in organizations. New understandings of organization change, and about you as change agent and recipient, will provide provocative insights into managing everyday work life as well as organizational change programs.
MGMT	403	Entrepreneurial leadership		Sustainability-Inclusive	The course will examine the Entrepreneurial Leadership (EL) factors needed to bring about enterprise transformation or transition from start-up and ongoing operations to what is frequently called enterprise building. Theories and related research will be examined, as will "best" and "worst" practices, using case studies, lectures, and outside speakers.
MGMT	408	Business Policy		Sustainability-Inclusive	A course for senior business administration majors that draws together the functional areas of business operations (accounting, finance, marketing, human resources, management and production)
MKTG	302	Marketing Concepts		Sustainability-Inclusive	This course develops an appreciation for the complexities of establishing and implementing marketing strategies. Areas of study include consumer behavior, product/service mixes, branding and packaging, channels of distribution, pricing, advertising and salesmanship.
MKTG	326	International Marketing		Sustainability-Inclusive	Marketing on an international scale with stress upon the viewpoint of the marketing manager who must recognize and cope with differences in legal, economic, spatial and cultural elements in different nations. Emphasis is placed on marketing techniques and methods of expanding participation in foreign markets.
MKTG	355	Marketing and Society		Sustainability-Inclusive	Marketing and Society broadly addresses the relationship between marketing and culture. Topics include marketing activities with negative influences on consumers, the use of marketing tools to positively influence society and marketing ethics. It is a course of reflection as students consider how one should and would respond to a series of situations and explore current issues.
PBHL	230	Global Health	Christy Kollath-Cattano	Sustainability-Inclusive	This course provides an overview of the determinants that impact health outcome around the globe
PBHL	257	Principles of Nutrition	Becky Kyryliuk Amanda Howell	Sustainability-Inclusive	A study of nutrients and current dietary guidelines. The course will include a personal dietary and activities analysis and focus on the relationship of food choices to lifestyle diseases and/or premature death. Emphasis will be on health-oriented decision making and personal responsibility.
PBHL	320	ST: Climate Change and Human Health		Sustainability-Focused	
PBHL	345	Environmental Health		Sustainability-Inclusive	This course is designed to introduce the basic tenets, applications, and foci of environmental health, including integrating environmental health concepts with other health professions. It will provide a foundation in environmental risk, epidemiology, toxicology, and regulation; an overview of agents of environmental disease; a discussion on applications of environmental health; and an exploration of current events and issues in the field.
PBHL	350	Epidemiology		Sustainability-Inclusive	This course introduces the basic concepts of epidemiology and biostatistics as applied to public health problems. Emphasis is placed on the principles and methods of epidemiologic investigation, appropriate summaries and displays of data, and the use of classical statistical approaches to describe the health of populations.
PBHL	456	Biostatistics in Health Sciences		Sustainability-Inclusive	This course introduces the theory of probability and statistics with practical applications using biological data. Subject matter includes fundamentals of probability, distribution theory, sampling models, data analysis, basics of experimental design, statistical inference, interval estimation, and hypothesis testing.

PALM	124	Stand Up Paddleboard	Sustainability-Inclusive	This course will include instruction on the history, techniques, strategies, practice of basic skills and safety for stand up paddleboard
PALM	126	Introduction to Coastal Kayaking	Sustainability-Inclusive	Students will develop techniques associated with kayaking stroke, manuevers and safety while developing a working knowledge of tides, weather, navigation, and equipment.
PHIL	150	Nature, Technology, and Society	Sustainability-Inclusive	An examination of the philosophical problems arising from the impact of science and technology on contemporary society. Topics include the relation of technology to society and political systems, the place of the individual within a modern technocratic society, the influence of technology on views of nature and the question of human values and scientific knowledge.
PHIL	155	Environmental Ethics	Sustainability-Focused	A study of the philosophical and ethical dimensions of environmental issues, including such topics as the moral status of other species and the nature of human obligations toward the environment.
PHIL	245	Envionmental Philosophy	Sustainability-Focused	An examination of selected topics, approaches, or authors in environmental philosophy, such as environmental aesthetics, ecofeminism or the writings of Aldo Leopold.
PHIL	301	Topics in Ethical Theory	Sustainability-Inclusive	An intensive examination of selected figures, traditions, or issues in ethical theory.
PHYS	101	Introduction to Physics 1	Sustainability-Inclusive	A general physics course intended for those students who plan to take only one physics sequence. Subjects covered are: mechanics (vectors, linear and rotational motion, equilibrium, and gravitational fields); heat (mechanical and thermal; properties of solids, liquids, and gases); and wave motion.
PHYS	101L	Introduction to Physics 1 Lab	Sustainability-Inclusive	A laboratory program to accompany PHYS 101. Laboratory three hours per week.
PHYS	102	Introductory Physics II	Sustainability-Inclusive	A continuation of PHYS 101. Subjects covered are: electricity (electric fields, AC and DC circuits); magnetism; optics (geometric and physical); and modern physics.
PHYS	102L	Introductory Physics II Lab	Sustainability-Inclusive	A laboratory program to accompany PHYS 102. Laboratory three hours per week.
PHYS	105	Intro to Meteorology	Sustainability-Inclusive	Survey of the most important topics in meteorology. Sample topics include cloud formation, violent storms, thunder and lightning, rainbows, rain and snow, forecasting, climate change, air pollution, and sustainability.
PHYS	106L	Exercises in Weather and Climate	Sustainability-Focused	Exercises for important topics in meteorology, including clouds, forecasting, thunderstorms, tornadoes, hurricanes, climate change, air pollution and sustainability. Concepts will be learned primarily in group-based exercises, supplemented with recorded lecture to provide needed background. Course is intended to be taught in an online format.
PHYS	111	General Physics I	Sustainability-Inclusive	Introduction to principles of physics primarily for scientists and engineers. Subjects covered are mechanics (vectors, linear and rotational motion, equilibrium and gravitational fields); heat (mechanical and thermal properties of solids, liquids and gases); and wave motion.
PHYS	111L	General Physics I Lab	Sustainability-Inclusive	Introduction to principles of physics primarily for scientists and engineers. Subjects covered are mechanics (vectors, linear and rotational motion, equilibrium and gravitational fields); heat (mechanical and thermal properties of solids, liquids and gases); and wave motion.
PHYS	112	General Physics II	Sustainability-Inclusive	A continuation of PHYS 111. Subjects covered are: electricity (electric fields, AC and DC circuits); magnetism; light (geometric and physical optics, spectra); and modern physics (relativity and nuclear physics).
PHYS	112L	General Physics II Lab	Sustainability-Inclusive	A continuation of PHYS 111. Subjects covered are: electricity (electric fields, AC and DC circuits); magnetism; light (geometric and physical optics, spectra); and modern physics (relativity and nuclear physics).
PHYS	210	Introduction to Air Pollution	Sustainability-Focused	Sources of air pollution, and the influence of anthropogenic and natural processes on air quality. Topics include the atmosphere' chemical composition, atmospheric chemical reactions, greenhouse gases, global warming and the roles of government in air pollution control.
PHYS	215	Synoptic Meteorology	Sustainability-Inclusive	Application of physical principals to synoptic-scale weather analysis and forecasting. Topics include weather observing techniques and weather map analysis, analysis of cyclones, fronts, and jets; temperature and precipitation forecasting techniques; and analysis of soundings and thermodynamic diagrams.
PHYS	225	Climate	Sustainability-Focused	This course serves as an introduction to the study of Earth's climate. Topics may include global energy balance, atmospheric radiative transfer, the hydrologic cycle, environmental energy transport, climate sensitivity, and feedback mechanisms.
PHYS	305	The Nexus of Management and Weather	Sustainability-Inclusive	Course examines how businesses in weather-dependent sectors (Insurance, Utilities, Oil/Gas, Agribusiness, Environmental, Shipping, Aviation, Tourism, Construction, Stock Options, Weather Derivatives, Law, Weather Modification/Mitigation, National Defense, Event Planning, etc.) utilize climatological and forecast data to manage risk, people, and logistics. Consumer-driven businesses (retail, restaurants, theaters, etc.) must manage behavior response to weather conditions. Businesses dedicated to weather (forecasting, broadcasting, mitigation, etc.) combine knowledge of business practices and meteorology. Managing climate change will also be addressed. Students learn how to obtain climate/forecast data, assess meteorological impacts to various businesses, and understand the rapid decisions required to manage changing weather.
PHYS	350	Energy Production	Sustainability-Focused	The science and technology of solar, nuclear, fuel cell, geothermal, wind, hybrid, and other energy systems. A study of the nature of energy and scientific issues relating to its production, storage, distribution, and use from a physics perspective. Lecture and lab.
PHYS	457	Satellite Meteorology	Sustainability-Focused	Satellite meteorology is the measurement of the weather by sensors aboard Earth-orbiting satellites. Topics include satellite orbits and navigation; electromagnetic radiation; instrumentation; image interpretation; atmospheric temperature, winds, clouds, precipitation and radiation.

PMGT	301	Introduction to Project Management		Sustainability-Inclusive	This course provides a realistic, socio-technical view of project management. After completing this course, students will have an understanding of the tools and processes used to manage projects, as well as the human factor required to successfully complete a project.
POLI	103	Introduction to World Politics	John Thomas III	Sustainability-Inclusive	This course examines the dynamics of international politics, including in-depth coverage of relevant actors, the nature of the state system, cooperation and conflict, global economic interdependence, international institutions and issues like the role of human rights in international affairs.
POLI	104	World Regional Geography		Sustainability-Inclusive	This course introduces students to the key concepts of geography through the lens of different regions of the world. Students explore the dynamics of human existence in different settings, arriving at a holistic understanding of life in the region by considering the interaction of physical and human geographies. The focus is on diversity amid the commonalities of human experience.
POLI	206	Doing Research in Politics: Introduction to Qualitative Research		Sustainability-Inclusive	This course introduces students to the qualitative methods that researches use to collect and analyze data and to make causal inferences about political phenomena.
POLI	210	Introduction to Public Administration		Sustainability-Inclusive	Introduction to Public Administration analyzes the basic principles, functions and practices of public organizations and public management. Emphasis on national government.
POLI	211	Introduction to Public Policy		Sustainability-Inclusive	This course examines the cultural, economic, and institutional contexts that shape U.S. public policy. The course examines the processes by which policy problems are addressed and alternate solutions are adopted. Implications for solving public problems and resolving more political disagreements in a manner consistent with democratic ideas are considered.
POLI	265	International Political Economy		Sustainability-Inclusive	The study of International Political Economy (IPE) introduces students to the integral relationship between politics and economics; how politics influences economics and vice versa. As such, this course seeks to explore the rules governing global exchange and the winners and losers produced by global economic exchange.
POLI	294	Introduction to Sustianability		Sustainability-Focused	This course will examine the interrelated environmental, economic, and social problems facing humans at local, regional, and global scales around the theme of sustainability.
POLI	306	Urban Policy		Sustainability-Inclusive	
POLI	307	Environmental Policy		Sustainability-Focused	This course is intended to familiarize students with various ethical frameworks, analytical tools and policy instruments that can be used to evaluate environmental problems and policy options. Specific issues may include citizen participation, environmental equity, the uses and abuses of cost/benefit analysis, science and uncertainty in environmental policy development and the use of regulatory requirements vs. market mechanisms for environmental protection.
POLI	310	Applications of Geographic Information Systems (GIS)		Sustainability-Inclusive	This course introduces students to foundational and advanced concepts and theories used to study our physical and human environments using Geographic Information Systems (GIS). Students will learn about the data and methodology for using GIS to understand and solve a variety of policy problems, including those related to environmental, urban, and/or political issues.
POLI	312	Social Welfare Policy and Sustainability		Sustainability-Inclusive	
POLI	331	Geography of Native Lands/Indian Law		Sustainability-Inclusive	This course examines the government-to-government relationships between Native American tribes and the United States. Case studies of legal, political, and cultural conflicts over land and resources will highlight the Indigenous Knowledge of ecological systems and the distinctive political ideas that inform Native American life and politics.
POLI	347	International Development: Theories and Practices	John Thomas III	Sustainability-Inclusive	This course examines the major theories of development and underdevelopment. The class addresses the domestic and international political, social, and economic factors that promote or retard development in Africa, Latin America, Asia, and the Middle East.
POLI	364	International Environmental Politics		Sustainability-Inclusive	International Environmental Politics examines the transnational nature of environmental issues and the responses to them in light of the political, economic, and social priorities of states and other actors in the global arena. The course includes substantive discussion of key environmental concerns and specific analysis of how international institutions and selected communities throughout the world have grappled with the politics of environmental stress and degradation.
POLI	370	Sustainable Development		Sustainability-Focused	This course is designed as a foundational course for examining the concepts, principles and practices of sustainable development (SD). It focuses on the unsustainability problems of industrial countries (i.e., social disconnection, political fragmentation, aging of populations, sustainable consumption, etc.) as well as developing states and economies in transition (i.e., managing growth, social conflict, pressures of population change, etc.) within a global context. SD is a reformative approach to our current systems, one that attempts to understand problems and solutions through an interconnected, holistic lens that includes dimensions of the environment, economies and society. The focus is on how to achieve continual development-economically and socially while protecting the environment. We will examine the global trajectory of SD, and then how it can be applied effectively at scale. Students will have the opportunity to engage in case study research in applying these concepts and principles to provide specific insight and examples.
POLI	397	Environmental Geography		Sustainability-Focused	Environmental Geography examines human interactions with the environment and environmental change. Whereas environmental politics focuses on the role of politics in environmental management, environmental geography investigates the role that knowledge, culture, economic systems, gender and identity, and the everyday politics of communities and households play in shaping human-environment interactions.
POLI	399	ST: Justice and Climate Fiction		Sustainability-Focused	

POLI	443	Governance of Social-Ecological Systems		Sustainability-Inclusive	Social-ecological systems are ecological systems that are linked to and affected by one or more social systems. Management and governance of such systems include a wide range of stakeholders and institutions. In this course we will examine various approaches to governing and managing these systems to make them more resilient.
PRST	312	Creativity and Innovation in the 21st Century		Sustainability-Inclusive	This course examines the key concepts, models, attitudes and practices that support creativity, innovation and both the communication and implementation of novel ideas in modern organizations. Significant expansion in competition arising from rapid globalization, production flexibility driven by new technologies, and changing consumer preferences have significantly reduced product/service life cycles. This has increased the need for individual, team and organizational creativity, innovation and rapid implementation. The increasing complexity of product/service development and delivery processes combined with the expanded participation of diverse stakeholders has made the presentation and communication of novel ideas especially important. This course examines various approaches and develops key competencies regarding the arousal of creativity, presentation of novel ideas, and successful management of innovation within modern organizations.
PRST	314	Ethics, Social Responsibility and Sustainability in the 21st Century		Sustainability-Focused	This course addresses the key concepts, models, attitudes and practices that support ethical, socially responsible and sustainable human activity in the 21st century. Globalization and rapidly increasing human populations, natural resource extraction and consumption, has increased the general level of interdependence among individuals, groups, cultures, institutions, nations and the natural environment. This has highlighted the issue of which guiding values and behavioral norms will govern the functioning of this increasing interdependent, impactful and coupled human-natural system. This course examines various approaches and develops competencies regarding ethical, socially responsible, and sustainable human activity.
PRST	490	Applying Sustainable Business Solutions		Sustainability-Focused	This sustainability-focused course will equip undergraduate and continuing education students with practical, applied skills and knowledge to achieve an organization's sustainability goals. The course is intended to allow students to evaluate and create sustainable business practices in the context of global 21st century problems. Students will be able to identify organizational risks and opportunities in business settings and develop solutions to these that will leverage economic systems in order to create business-centered sustainable solutions to economic, social, and environmental problems.
PSYC	211	Psychological Statistics		Sustainability-Inclusive	Elementary statistical techniques and their application to the analysis and interpretation of psychological data.
PSYC	220	Research Methods		Sustainability-Inclusive	A survey of standard research methods used by psychologists. Topics include the scientific method, measurement issues, observational techniques, sampling, experimental designs and data analysis.
PSYC	223	Social Psychology	Lisa Ross	Sustainability-Inclusive	A study of the principles of human interaction, including a consideration of such topics as social learning, person perception, attitudes, prejudice and analysis of small group behavior.
PSYC	329	Environmental Psychology		Sustainability-Focused	A study of the relationships between human behavior and the physical environment, including a consideration of such topics as the effects of the arrangement of interior spaces, structures of communities, crowding in urban environments, climate and natural disasters.
PSYC	330	Psychology of Prejudice and Discrimination		Sustainability-Inclusive	This course offers an examination of stereotypes, prejudice, and discrimination, and their relationships and relevant theories. Challenges that people face in their personal efforts to reduce their own prejudices will be examined. Finally, students will appraise organizational strategies for reducing prejudice and discrimination and examine the debate on affirmative action.
PSYC	332	Psychology of Social Change		Sustainability-Inclusive	In a world struggling with a number of serious environmental and social-justice issues, how do we effect social change? How do we create a healthier, cleaner, safer, more compassionate world? How do we, as individuals, become better people? In this class, we will select environmental and social justice issues, and then explore theoretical and empirical perspectives on how our beliefs, reasoning, and emotions–as well as our goals, desires, and fears–positively and negatively influence our attitudes and actions concerning these issues. We will review the literature on habit formation and the ways in which people can effectively change their attitudes and behaviors, both as individuals and as societies. In the process, we will tackle the applied problem of actually enacting change in our own lives.
PSYC	498	Effects of Nostalgia on Climate Change Attitudes and Behaviors		Sustainability-Inclusive	
PUBA	602	Public Policy/Public Administration		Sustainability-Inclusive	This course examines the activities of individuals, groups, and institutions that define or ignore public problems, participate or fail to participate in political struggles over these problems and confront or avoid opportunities to develop and implement solutions. The implications of these complexities for public employees and public management are emphasized.
RELS	105	Introduction to World Religions		Sustainability-Inclusive	An introductory survey of the major religions of mankind, beginning with a treatment of tribal religions and including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam.
RELS	276	Religion and the Environment		Sustainability-Inclusive	An interdisciplinary approach to explore and investigate how humans have used religion to understand and interact with the natural environments in which they are located
RELS	305	Topics in Indigenous Religions		Sustainability-Inclusive	A comparative examination of topics and themes central to the study of indigenous religions. Topics covered may include the following: cosmology, shamanism, ritual, sacred art, oral traditions, myth, rites of passage and social and religious organization.
SCIM	371	Green Supply Chain Management		Sustainability-Focused	This course introduces students with tangible and intangible benefits of moving towards a green supply chain. The course prepares future supply chain managers with practical ways of building a socially and environmentally responsible strategy in their supply chains, by working with suppliers and customers.

SOCY	102	Contemporary Social Issues	Sustainability-Focused	This class examines how societies create, perpetuate, and address contemporary social issues, including crime, poverty and economic inequality, racial, ethnic and gender discrimination and environmental degradation. You will engage in a discussion regarding your civic responsibility to become involved in efforts to address these issues in a local and global context.
SOCY	106	Sociology of Peace	Sustainability-Inclusive	This course examines the world through a sociological lens as students discover the making of a Culture of Peace. This class focuses on areas and practices of inter-cultural cooperation, positive peace, global transformation, non-violent communication, conflict resolution, restorative justice, and community peace-building.
SOCY	271	Introduction to Social Research	Sustainability-Inclusive	An introduction to theories and philosophies of social research; tasks and issues in designing research; and sociological methods of data collection. This is a required foundation course for Sociology majors and minors completed during the first 18 hours. Students from other fields welcome.
SOCY	272	Making Sense of Sociological Data	Sustainability-Inclusive	Introduction to widely used techniques for analyzing quantitative sociological data. Attention to statistical description and inference, presentation of data, interpreting statistical analyses, and using software for statistical analysis. This is a required foundation course for Sociology majors and minors completed during the first 18 hours. Students from other fields welcome.
SOCY	323	Sociology of Sustainability and Consumption	Sustainability-Inclusive	This course explores ways that individuals, groups, and organizations express environmental desires and respond to environmental concerns. Students examine how environmental problems/issues are often structural and require individuals to become change agents.
SOCY	346	Environmental Sociology	Sustainability-Focused	Analyzes the current crisis of the global environment in both empirical and theoretical terms. Class, race, gender and globalization issues as related to environment, assumptions, and interests present in conceptualizations of environmental issues and solutions, and institutional and non-institutional agency in the creation of environmental problems and formation of environmental responses will be considered.
SOCY	351	Urban Sociology	Sustainability-Focused	An in-depth case-study and theoretical examination of contemporary urbanization with a focus on community, culture, politics, economics and environmental sustainability in relation to class, race and ethnicity and gender dimensions. The future of cities will also be addressed as we explore the relationship between urbanization and other key forces such as suburbanization, globalization, environmental deterioration and the technological and communications revolutions.
SOCY	352	Population and Society	Sustainability-Inclusive	An introduction to the basic concepts, theories, and methods of population analysis. In addition, major issues related to population growth will be examined from a problem-solving perspective.
SOCY	366	Race and Ethnic Relations	Sustainability-Inclusive	An in-depth examination of the problems associated with race and ethnic relations in contemporary American society.
SPAN	318	Spanish for International Business	Sustainability-Inclusive	An introduction to the vocabulary, style, and conceptual framework for dealing with speakers of Spanish in international business. Topics include: organization of corporations in Latin America and Spain, corporate finance and the banking system, marketing, import/export firms, the role of government and the informal market in Spanish-speaking countries and cultural matters related to commerce in the Hispanic world.
SPAN	418	Advanced Spanish for Business Communication	Sustainability-Inclusive	This course prepares students for complex cross-cultural communication in the Hispanic business world, emphasizing real-life use of oral and written Spanish needed by future managers and leaders making informed decisions. Cultural awareness and business terminology will be further developed. Strategies for negotiating meaning, and responding to new information will be reinforced through challenging role-plays, news analysis and letter writing. Accurate understanding will be stressed with some practice with written and sight translations, and short consecutive interpreting.
THTR	209	Stagecraft	Sustainability-Focused	Introduction to theatrical production including the basic tenets of scenic construction, lighting, sound and stage management. Sessions will be held on emerging technologies such as video production and special effects. Students will have hands-on opportunities to experience theatre technology. A lab in the technical areas of theatrical production is required.
THTR	422	Theatre for Youth Literature	Sustainability-Inclusive	This course will survey appropriate theatre literature for use in the K-12 classroom, with students creating a catalog of production/performance information/analysis for future reference. The course will also include the history, literature, theory, and current practices of the field.
THTR	522	Theatre for Youth Literature	Sustainability-Inclusive	This course will survey appropriate theatre literature for use in the K-12 classroom, with students creating a catalog of production/performance information/analysis for future reference. The course will also include the history, literature, theory, and current practices in the field.
URST	101	Introduction to Urban Studies	Sustainability-Inclusive	Topics will include the history of planning, macro theories of planning, goal setting and implementation within contemporary political settings. Primary emphasis will be placed upon the application of planning techniques within agencies and within urban communities; appropriate case studies will be used.
URST	310	Urban Planning	Sustainability-Inclusive	Topics will include the history of planning, macro theories of planning, goal setting and implementation within contemporary political settings.
URST	313	Sustainable Urbanism	Sustainability-Focused	This course explores the concept of sustainable urbanism and looks at real world examples of best (and sometimes worst) practices in light of the many environmental challenges facing urban areas
URST	320	Town & Country Planning	Sustainability-Inclusive	This course surveys the field of planning in areas less populated than cities, including towns and rural areas
URST	360	Land Use Law	Sustainability-Inclusive	In this course, students will learn about the history and background of zoning and land use controls, enabling legislation for counties and municipalities, the development process, the mechanism for enforcement of ordinances, and appeals.
URST	361	Water Use Law	Sustainability-Inclusive	This course examines the legal issues related to the uses of water in the U.S., particularly around the land-water interface, regulatory bodies that oversee water issues, environmental/ecological concerns, and the use of water for energy.

WGST	200	Introduction to Women's and Gender Studies	Sustainability-Inclusive	This is an interdisciplinary course designed to explore the rich body of knowledge developed by and about women and gender. We study gendered structures and their consequences in contemporary cultures and societies. In addition, we examine feminist theories and relevant social movements.