

Department	course #	course description		under grad	grad	under grad inclusive	under grad focused	Grad Inclusive	Grad focused
Middle Grades and Secondary Education	ISCI	2001	Life/Earth Science: This course is an integrated science course covering major concepts in the areas of life and earth science. The course will emphasize the nature and skills of science as well as the understanding of major science concepts and principles in these fields. The use of an inquiry-based approach throughout the course will enhance the application of these concepts to the teaching of elementary and middle grades students.	Sustainability -inclusive	1		1		
	MSED	6237	Science Methods: This course is designed to assist students in understanding the purpose of science in the middle and secondary school curriculum while they become familiar with the trends in science instruction and laboratory and field safety procedures. Major emphasis is placed on planning and presentation skills and on developing strategies to facilitate working with diverse student populations present in public schools. Prerequisite(s): A minimum grade of "C" in MSED 6120 and MSED 6122, admission into the teacher education program.	Sustainability -inclusive		1		1	
	SCED	3237	Methods of Teaching Science in Secondary Schools: This course is designed to assist students in understanding the purpose of science in the secondary school curriculum and becoming familiar with the trends in science instruction. Skills are developed in using classroom laboratory and field trip experiences in planning and evaluating science instruction. Major emphasis is placed on planning and presentation skills and on developing strategies to facilitate working with the diverse student populations present in the public schools.	Sustainability -inclusive	1		1		
Department of Art	ARTS	3680	Environmental Art: An introduction to environmental art, this interdisciplinary course examines the role of art in promoting and maintaining sustainable human societies.	Sustainability -focused	1		1		
Communication Arts	MMFP	4233	Narrative Film Production: Collaborating in small crews, students produce and edit original short fiction film and television content, based on scripts developed in previous major courses. Course work will investigate the multiple safety and operational functions of crew positions as well as independent alternatives to the Hollywood genre, blockbuster, and large-scale production systems.	Sustainability -inclusive	1		1		
Sociology and Anthropology	ANTH	2331	Cultural Anthropology: This course is an exploration of the nature, structure, and dynamics of human culture systems through the examination of a variety of cultures, including our own, from around the world. It will provide the student with a better understanding and tolerance of cultural differences and of how and why people, including ourselves, live and act as they do.	Sustainability -inclusive	1		1		
	ANTH	3091	Environmental Anthropology: Ecological/environmental anthropology is a long-standing subsection of the field, and incorporates numerous theoretical stances across the four subfields (archaeological, biological, cultural, linguistic). Focusing primarily on cultural and biocultural stances, this class explores several key questions: What are human relationships with their environments, and what are the foundations of these relationships? How have anthropologists examined, understood, and explained nature/human interactions in the discipline? How does the environment influence culture and cultural adaptations, and in turn, how do people shape the environment around them? The course is divided into four key	Sustainability focused	1		1		

			themes, Foundational Ecological Anthropology, Pollution & Extraction, Sustainable Food & Fisheries, and Climate Change. It is bookended by introductory materials in week one and reflections and aspirational applications in week 16. The class topics will be explored through short lecture videos, films, podcasts, case studies, and theoretically-oriented readings. Students are expected to engage with class materials, then put them in conversation with each other by finding similarities, commonalities, contrasts, and points of contention.							
	SOCI	1101	Intro to Sociology: A survey of the discipline of sociology. Topics include sociological theory, methods, and selected substantive areas.	Sustainability -inclusive	1			1		
Literature	ENGL	3350	Intro to African American Lit: An introduction to African-American literature from its beginnings to the present emphasizing literary, historical and cultural contexts.	Sustainability -inclusive	1			1		
History	HIST	1112	World History: Addresses the historical context of contemporary global society by tracing developments from the fifteenth century to the present.	Sustainability -inclusive	1			1		
	HIST	2110	US Comprehensive Survey: Surveys the United States from pre-colonial times to the present with special attention to Georgia. Satisfies the Georgia History and U.S. History requirements.	Sustainability -inclusive	1			1		
	HIST	3231	Introduction to Public History: An introduction to the basic historiographic and anthropological approaches used in public history and a survey of the different disciplines such as archaeology, architecture, folklife, decorative arts, museum studies, and preservation which comprise public history.	Sustainability -inclusive	1			1		
	HIST	3580	Environmental History: A historical study of the interactions between people and their environments. Course may focus on local environments, the Southeast, the entire United States, or survey the environmental history of the world.	Sustainability focused	1			1		
	HIST	3770	US History 1914-1945: Analysis of the institutions and forces that molded life in the United States from 1917 to 1945.	Sustainability -inclusive	1			1		
Department of Political Science and International Studies	INTS	3230	Global Issues: Study of selected global issues and problems facing all nations, states, and peoples.	Sustainability -inclusive	1			1		
	INTS	2130	Introduction to International Studies: The course is designed to introduce students to a complex array of interdisciplinary perspectives that define the relationships and issues of the contemporary international system. Students are exposed to economic, social, political, geographical, technological, and cultural challenges facing the contemporary world.	Sustainability -inclusive	1			1		
Department of World Languages & Cultures	JAPN	3090	Selected Topics in Japanese: Study of a topic in Japanese literature, culture, society, thought, or language not included in the regular offering. Continued development of all five language competencies (listening, speaking, reading, writing, and culture). May be repeated for credit provided a new topic is studied.	Sustainability focused	1			1		
	GRMN	2002	Intermediate German II: Continued focus on communication skills and cultural understanding.	Sustainability -inclusive	1			1		

Philosophy and Religious Studies	PHIL	3170	Postmodernism: A study of the philosophical response to the modernist philosophical tradition that led to significant changes in Western discourse on politics, aesthetics, and science.	Sustainability -inclusive						
	PHIL	3150	Contemporary Philosophy: Twentieth century schools and trends in philosophy as exhibited by such figures as Heidegger, Whitehead, Moore, Wittgenstein, Sartre, and Ayer.	Sustainability -inclusive	1		1			
School of Human Ecology	INDS	4446	Design Studio V: This course is a capstone for the interior design student that will provide an advanced integrative research and design experience. Projects are complex, specific design situations that will be based on current trends in design. Areas of emphasis may include multi housing, healthcare, or socially responsible design.	Sustainability -inclusive	1		1			
	INDS	3434	Lighting: This course covers the principles of color and lighting design and their impact on interior space. These topics are explored through an analysis of environmental constraints, calculations, economics, design theory, technical and aesthetic components.	Sustainability -inclusive	1		1			
	INDS	3530	Sustainability for the Built Environment: Introduction to theories of sustainability and its application to the interior built environment including sustainable interior building materials and systems. The impact of the built interior environment on global natural resources and environmental rating systems will be addressed.	Sustainability focused	1			1		
	RECR	3235	Outdoor Recreation Management: Introduces students to the history, philosophy, policies, and laws associated with natural and cultural resource management, and to ecological and heritage preservation concepts as applied in the field of outdoor recreation management.	Sustainability focused	1			1		
	RECR	3230	Adventure Education: An introduction to recreational, educational, developmental, and therapeutic adventure programming. Emphasis is placed on theoretical foundations, outdoor skill development, trip planning & logistics, leadership, risk management, and effective experiential teaching methods. A three day field experience is required.	Sustainability -inclusive	1			1		
Civil Engineering and Construction	CENG	2131	Civil Engineering Fluid Mechanics: This course covers basic concepts of fluid mechanics, and the fundamentals and applications of ideal and real fluid flow. Topics include fluid statics, conservation principles, the Bernoulli equation, fluid flow in pipes, fluid flow measurement devices, open channel flow, and basic hydraulic structures.	Sustainability -inclusive	1			1		
	CENG	3132	Introduction to Water and Wastewater Treatment: The course is an introduction to water and wastewater treatment. Topics include sources and characteristics of water and wastewater, treatment standards, selection of different water and wastewater treatment processes, design principles for treatment units in water and wastewater treatment plants, and standard laboratory tests used to control the operation of water and wastewater treatment plants	Sustainability -inclusive	1			1		

Civil  
Engineering  
and  
Construction

	CENG	5139	Advanced Water and Wastewater Treatment: The course covers advanced water and wastewater treatment processes necessary for designing and managing modern drinking water and wastewater treatment plants. Topics include ion exchange, ozonation, adsorption, membrane, Biological Nutrients Removal (BNR), Membrane Biological Reactor (MBR), disinfection, sludge treatment and disposal, wastewater reclamation and reuse, and effluent disposal. Graduate students will be required to complete individual advanced-level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor.	Sustainability focused		1					1
Mechanical Engineering	MENG	5138	Composite Materials: Manufacturing, Analysis, and Design: This course introduces basics of fiber-reinforced, and laminated composites, anisotropic theory, stress analysis, design and testing of composite materials. Topics include an overview of structure and processing of composite materials, classification of anisotropy, anisotropic constitutive models, classical laminate theory, failure theories, and test methods. The knowledge will be applied to a design of simple composite structural elements.	Sustainability -inclusive		1					1
Biology	BIOL	1103	Concepts of Biology: May include topics such as evolution, ecology and the environment, genetics and heredity, diversity of life, cells and cellular energy, biomolecules, and the scientific process. (Credit in this non-majors course may not be applied to the Area F requirement in biology. Course not intended for science majors or clinical health majors).	Sustainability -inclusive	1			1			
	Biol	1230	Environmental Biology: A survey of environmental issues from a biological perspective. The course will provide an introduction to environmental science, population growth, communities and ecosystems, evolution and biodiversity, and the fundamental interactions of humans with their environment (land, water, energy, food, and climate). Environmental Biology students learn about ecology and environmental issues. Sustainability is woven through every concept.	Sustainability -inclusive	1			1			
	BIOL	1320	Diversity of Life: Survey of the major domains of life, including prokaryotic and eukaryotic groups, as well as viruses.	Sustainability -inclusive	1			1			
	BIOL	1330	Human Biology: Structure and function of human organ systems, human heredity, evolution, and ecology	Sustainability -inclusive	1			1			
	BIOL	3133	Ecology and Evolution: An introduction to major principles of evolution and ecology. This course covers the origin and maintenance of genetic variation, genetic change in populations over time (microevolutionary processes of selection, drift, and gene flow), and taxonomic diversification (macroevolutionary process of speciation). Students will see how this evolution and diversification are shaped by ecological interactions between organisms and their abiotic and biotic environment. These ecological interactions will be studied at the population, community, and ecosystem levels.	Sustainability -inclusive	1			1			

Biology

BIOL	5237	Physiological Ecology / Environmental Physiology: Examines how physiological adaptations of animals and plants to abiotic environmental factors (e.g., temperature, salinity, moisture, ultraviolet radiation) contribute to the understanding of local species diversity, biogeographic patterns, and habitat exploitation. Emphasis is placed on how physiological function (e.g., osmoregulation, thermoregulation, gas exchange, energy use) interfaces with ecology and evolutionary biology.	Sustainability -inclusive		1				1
BIOL	5347	Fisheries Biology: Examines the principles and practices of fisheries management and fish conservation, built on a foundation of biology, ecology, and fisheries science, with emphasis on freshwater North American species and environments. Laboratory emphasizes applied methods for collection, analysis, and interpretation of fisheries data. Field trips are required.	Sustainability focused		1				1
BIOL	5400	Barrier Island Ecology: Covers the abiotic and biotic environment, flora, and fauna of coastal barrier island habitats with a focus on Georgia's barrier islands. Topics may include geological history, coastal processes, and ecological communities of barrier island habitats. Current threats and current and future coastal management techniques will be discussed.	Sustainability -inclusive		1				1
BIOL	5444	Ichthyology: Emphasizes the systematics, evolution, biology, ecology and behavior of recent and extinct fishes. Laboratory emphasizes the identification, morphology, and natural history of fishes. Field trips required.	Sustainability -inclusive		1				1
BIOL	5547	Marine Ecology: Course stresses ecological processes and adaptations that act to structure coastal associations and permit their persistence through time. The course provides a background for students interested in research in the marine sciences. Students will learn to develop good statistical designs and use various techniques to collect data in marine ecology. Several field trips are required.	Sustainability -inclusive		1				1
BIOL	5500	Bioinformatics and Biotechnology: Utilization of databases and software for the analysis of DNA and protein information. Production of products and services using biological materials.	Sustainability -inclusive		1				1
BIOL	5445	Herpetology: Examines the phylogeny, morphology, life history and ecology of reptiles and amphibians. Field identification of local species will be emphasized. Field trips required.	Sustainability -inclusive		1				1
BIOL	5448	Mammalogy: Course examines the classification, evolution, distribution and life histories of mammals. The laboratory includes identification and preparation of specimens and development of field techniques. Field trips required.	Sustainability -inclusive		1				1
BIOL	5460	Phycology: Evolution, morphology, physiology, and ecology of the microalgal and macroalgal species found in marine and freshwater environments, with field trips to a selection of local habitats.	Sustainability -inclusive		1				1

	BIOL	5534	Conservation Biology: Explores the causes and consequences of the loss of biodiversity, as well as methods for conserving rare species and ecosystems.	Sustainability -inclusive		1				1	
	BIOL	5547	Marine Ecology: Course stresses ecological processes and adaptations that act to structure coastal associations and permit their persistence through time. The course provides a background for students interested in research in the marine sciences. Students will learn to develop good statistical designs and use various techniques to collect data in marine ecology. Several field trips are required.	Sustainability -inclusive	1			1			
	SUST	4730	Practicum in Environmental Sustainability: A practicum for the completion of the BS in Sustainability Science or the Environmental Sustainability Interdisciplinary Minor. Students will work with a faculty mentor to develop and implement sustainability projects in their field of expertise on campus or in the community. Projects will be presented in an appropriate forum at the end of the semester. The course is offered through the Institute for Coastal Plain Science at Georgia Southern.	Sustainability -inclusive	1			1			
Chemistry & Biochemistry	CHEM	1211	Principles of Chemistry I: First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature.	Sustainability -inclusive	1			1			
	CHEM	1212	Principles of Chemistry II: Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors.	Sustainability -inclusive	1			1			
	CHEM	1310	Comprehensive General Chemistry: Fundamental laws and theories of chemical reactions. Topics include atomic structure, bonding, theory, stoichiometry, properties of matter; chemical thermodynamics, electrochemistry and kinetics. Prior completion of a high school chemistry course is highly recommended.	Sustainability -inclusive	1			1			
	CHEM	2100	Analytical Chemistry: The study of modern quantitative determination methods, including volumetric and gravimetric analyses, equilibrium calculations, and acid/base chemistry, as well as the fundamental theory of chromatography, spectroscopy, and electrochemistry.	Sustainability -inclusive	1			1			
	CHEM	5110	Environmental Chemistry: A survey of the current environmental issues and the underlying chemistry associated with them, including stratospheric chemistry, air pollution, global climate change, toxic organic chemicals, natural water systems, soil chemistry, and energy production.	Sustainability -inclusive	1			1			
	CHEM	5130	Industrial Science: Basic understanding of the top 50 industrial chemicals, their manufacturing processes, and raw materials sources, the course will also cover the origin and manufacture of basic petroleum feed stocks and petrochemicals; catalysis; pulp and paper chemistry;	Sustainability -inclusive	1			1			

			polymers and plastics; adhesives, sealants, and glues; agricultural chemistry; pharmaceutical chemistry; and selected topics of importance to the industry.							
Geology and Geography	GEOL	1121	Introduction to Earth: An introductory study of the origin and structure of earth materials and the processes which modify Earth's interior and exterior. The laboratory component of this course offers hands-on exercises related to Earth materials, interpretation of topographic and geologic maps, principles of geologic time, and plate tectonic processes.	Sustainability -inclusive	1		1			
	GEOG	1130	World Regional Geography: Study of geographic regions of the world emphasizing physical landscapes, resources, economies, culture and politics. Selected problems or situations of contemporary interest will be incorporated.	Sustainability -inclusive	1		1			
	GEOL	1340	Environmental Geology: The course examines the links between humans and the geologic environment	Sustainability -inclusive	1		1			
	GEOG	5330	Population Geography: Explores issues and themes related to the patterns, processes, and consequences of the spatial distribution of the world's population. The course is organized around the fundamental components of population change, fertility, mortality, and migration. Current events related to population change and distribution in multiple geographical contexts will constitute a primary focus of the course.	Sustainability -inclusive		1			1	
	GEOL	5130	Geochemistry: This course covers the theory and applications of stable and radiogenic isotope geochemistry as applied to low-temperature geological processes.	Sustainability -inclusive		1				1
Economics	ECON	4337	Environmental Economics: This course will apply the basic principles of microeconomics to analyze a variety of environmental and natural resource policy problems. We will examine the causes of natural resource and environmental problems, the consequences of these problems, and measures for dealing with them. We will examine many real environmental and resource problems, including but not limited to, the depletion of oceanic fisheries, tropical deforestation, acid rain, pollution control, and endangered species.	Sustainability -inclusive	1		1			1
School of Nursing	NURS	4110	Community Health Nursing: This course provides the student with a foundation of community nursing roles and essential skills for entry level public health nursing with a focus on population health and wellness. Knowledge and value of human diversity are held as essential concepts as students apply the nursing process with individuals, families, aggregates, and communities. Theories and concepts from public health and nursing science are applied to risk reduction, disease prevention, and health promotion.	Sustainability -inclusive	1		1			
Health Sciences and Kinesiology	SMGT	3530	Principles of Sport Development: This course examines community development and change through sport programming.	Sustainability -inclusive	1		1			
	SMGT	4330	Facility and Event Management: Addresses the principles and procedures involved in sports facility and event management. Special emphasis will be given to sports event planning, production, and evaluation.	Sustainability -inclusive	1		1			
	SMGT	6132	Current Trends In Sport Administration: This course provides insight into the past, current, and future trends in the field of sport administration. Emphasis will be placed on comprehension, assessment and problem resolution. Administrative theory and function, as well as cultural,	Sustainability -inclusive		1				1

			social, legal and economic factors; and professional practices and applications within the field of sport administration are analyzed and applied to current issues and trends in the industry.							
	HADM	7600	Ethics and Leadership in Health Administration: This course introduces students to the theory of ethics and the principal frameworks for ethical decision-making as well as professional development and effective leadership within the context of health care organizations.	Sustainability -inclusive		1				1
	HSCC	3000	Special Topics in Health Sciences: This course offers students a seminar experience covering prominent and contemporary topics in the health sciences. Topics vary according to current trends and issues within the field.	Sustainability -inclusive	1			1		