

Ball State University Inventory of Sustainability Courses, 2021-22

AC-1: Academic Courses

Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
ACC	306	Managerial Accounting	X		Measurement and management tools and techniques, emphasizing managerial uses of financial and operational data. Prerequisite: ACC 202 with grade higher than C-.	Miller College of Business	Accounting	UG
ACE	600	Internship in Athletic Coaching Education		X	A supervised work and learning experience in the application of coaching knowledge and skills. Internships are to be completed with organizations or schools within the sport industry approved by the program coordinator including professional, collegiate, interscholastic, and amateur organizations. Prerequisite: 12 credits earned (C or better) from the graduate ACE program (core or approved electives); permission of the Athletic Coaching Education coordinator. A total of 3 credits may be earned. Open only to Athletic Coaching Education majors.	College of Health	Kinesiology	GR
ACE	670	Sport Safety and Injury Prevention		X	Includes methods for recognizing and ensuring safe playing conditions; role of protective equipment and proper conditioning procedures for injury prevention; management of injuries. Prerequisite: permission of the athletic coaching education program coordinator. Open only to students in the School of Kinesiology.	College of Health	Kinesiology	GR
ACE	688	Current Issues in Coaching Research		X	In-depth study of emerging research in coaching athletic teams. Special emphasis on collecting, analyzing, and applying research from related disciplines for application to future research on coaching. Prerequisite: KINE 601; permission of the athletic coaching education program coordinator. Open only to students in the School of Kinesiology.	College of Health	Kinesiology	GR
AFAM	100	Introduction to African-American Studies	X		Examines the important historical, political, cultural, social, economic, and artistic issues concerning people of African descent in the United States from the beginning of the Trans-Atlantic Slave Trade to contemporary developments such as the emergence of the Black Lives Matter movement.	Sciences and Humanities	English	UG
AFAM	200	African-American Studies Theory and Research Methods	X		Provides an introduction to critical theories of race and racialization. Includes an investigation of blackness as a category of critical analysis, and will be attentive to the way in which blackness is shaped by gender, class, sexuality, and nationality. Finally, the course will introduce students to research methods used to examine these theories.	Sciences and Humanities	English	UG

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AFAM	400	African-American Studies Capstone	X		Provides students with an individual assignment under the supervision of an AFAM Studies-affiliated faculty member. Students will work individually with the affiliated faculty member to develop an individual research project focusing on African Americans, Africans, and/or people of the African Diaspora. Course topics will vary based on the research specialization of the faculty member and research interest of the student, but emphasis will be placed on the formulating and completing of original, field-specific research. Prerequisite: AFAM 100 and 200.	Sciences and Humanities	English	UG
ANTH	101	Introduction to Cultural Anthropology	X		Introduces the diversity of human social life as shaped by culture, relating the origins and nature of culture to variations in such universal aspects of human experience as subsistence strategies, resource allocation, social organization, political order, belief systems and the arts.	Sciences and Humanities	Anthropology	UG
ANTH	103	Archaeology and Culture	X		Explores the long-term development of human culture from its beginnings to the present through archaeological and material perspectives. Presents a global survey of world prehistory and focuses upon the major cultural trends and key transitions in the prehistoric past. Emphasizes the use of archaeological methods and information in reconstructing global culture history.	Sciences and Humanities	Anthropology	UG
ANTH	105	Introduction to Biological Anthropology	X		Introduces students to human variation over space and time; its genetic, developmental, environmental, and theoretical bases; the human life cycle; primatology; the anthropoid fossil record, and the relevance of these for an understanding of human health, adaptation, and human diversity.	Sciences and Humanities	Anthropology	UG
ANTH	111	Anthropology of Everyday Life	X		Examines what anthropology can teach us about everyday life in a diverse world. Explores how societies and individuals are affected by increasing contact between people of different cultures. It takes historical and cross-cultural perspectives on the human condition and the cultural adaptations required in a changing world.	Sciences and Humanities	Anthropology	UG
ANTH	231	Cannibals, Warriors, and Princesses: Native Americans in Popular Culture	X		Explores how representations of Native Americans have been part of popular culture since their first contacts with Europeans. This course surveys how Native Americans have been represented by non-natives in early contact literature, ethnography, exhibitions, films, fiction, and images. The course also considers the ways Native American authors, artists, filmmakers and anthropologists have challenged these portrayals. Prerequisites: ANTH 101 or ANTH 103.	Sciences and Humanities	Anthropology	UG

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ANTH	311	Ethnicity and Race	X		Explores the concepts of ethnicity and race and how they shape the interaction between individuals and groups in complex societies. Devotes particular attention to the United States, but also examines these social constructs in other parts of the world. Prerequisite: AFAM 100, ANTH 101, ANTH 111, or WGS 210 or permission of the instructor.	Sciences and Humanities	Anthropology	UG
ANTH	312	Ecological Dimensions of Culture		X	Explores the system of relationships between human populations and their environments focusing on cultural behavior. Uses studies of societies from ancient to modern times, models and theories from ecology and anthropology, and considers both applied and theoretical perspectives. Prerequisite: any one of ANTH 101, 103, 105, 111; or permission of the instructor.	Sciences and Humanities	Anthropology	UG
ANTH	316	History of Method and Theory in Anthropology	X		Surveys the major ideas and issues of anthropology over time. Includes methods and theories from archaeology, physical anthropology, linguistics, and cultural anthropology. Prerequisites: ANTH 101 or permission of the instructor. Open only to sophomores, juniors and seniors.	Sciences and Humanities	Anthropology	UG
ANTH	322	Urban Anthropology	X		Examines the history, theory, and methods that cultural anthropologists use to study cities and urban life. Compares cities around the world.	Sciences and Humanities	Anthropology	UG
ANTH	342	Anthropology of the United States	X		Examines the values, beliefs, and experiences of different groups of people in the United States through the lens of identity (how one views oneself), identification (how others view that individual), and inequality. Explores contemporary intersections of race, class, gender, religion, sexuality, and/or political ecology, as well as historical influences on those categories, like colonialism. Addresses how different groups work to challenge inequality, develop resilience, and build solidarity in the nation. Prerequisite: AFAM 100, ANTH 101, ANTH 111, or WGS 201 or permission of the instructor.	Sciences and Humanities	Anthropology	UG

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ANTH	414	Applications of Anthropology	X		Students will engage in research in anthropology by investigating social problems and/or work that draws the attention of anthropologists outside the university setting. This course will examine the skills needed to supplement those traditionally taught in anthropology. It includes oral, written, and visual communication strategies for professional development. Prerequisite: ANTH 316 and junior status.	Sciences and Humanities	Anthropology	UG
ANTH	450	Ethnographic Field School	X		An intensive immersion in the methods of field research in cultural anthropology. Emphasizes problem formulation, observation, interviewing, writing, and interpretation of field data. Field schools are intended to provide specific skills that result in an ethnographic report. Prerequisite: an introductory and upper division course in cultural anthropology; permission of the instructor. A total of 6 credits may be earned.	Sciences and Humanities	Anthropology	UG
ANTH	455	Primatology	X		Comparative survey of nonhuman primates, their biology and behavior. Prerequisites: ANTH 105 or BIO 112 or permission of the instructor.	Sciences and Humanities	Anthropology	UG
ANTH	457	Applied Archaeology	X		Special problems of contract, conservation, and public archaeology, including laws and guidelines, relations with governmental and private agencies, research design and proposals, field and laboratory methods, and curation. Prerequisite: ANTH 313 or permission of the instructor.	Sciences and Humanities	Anthropology	UG
ANTH	459	Ethnographic Methods	X		Develops the ability to conduct and comprehend ethnographic research. Includes research design, data collection, analysis, reporting, basic statistics, and computer use. Emphasizes both quantitative and qualitative techniques for basic and applied research. Prerequisite: 15 credits in ANTH or permission of the instructor.	Sciences and Humanities	Anthropology	UG
ANTH	463	Theory and Method in Historical Archaeology	X		Presents a detailed summary of theory and methods used by historical archaeologists, including social theory, historical methods, and archaeological analysis methods. Prerequisite: ANTH 103 or permission of the instructor.	Sciences and Humanities	Anthropology	UG
ANTH	471	Methods and Theories of Ethnohistory	X		Methods and theories of ethnohistory provides training in the identification and analysis of primary source data concerning the experiences of historically marginalized groups in North America. Prerequisite: ANTH 101 or permission of the instructor.	Sciences and Humanities	Anthropology	UG

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AQUA	355	Internship in Aquatics		X	Permits credit for aquatic experiences in categories of leadership, administration, or operation of aquatic programs or facilities. Prerequisite: AQUA 221; permission of the program coordinator. A total of 3 credits may be earned. Open only to scuba minor students.	College of Health	Kinesiology	UG
AQUA	455	Aquatic Facilities Management and Programming		X	Study of organization and administration to prepare the aquatic professional for management of indoor and outdoor facilities. Includes facility inspection, safety and sanitation procedures, and activity, sport, and recreational aspects of pools, lakes, camps, and beach fronts.	College of Health	Kinesiology	UG
AQUA	457	Aquatic Facility Design		X	A study in swimming pools, their design, and utilization. Includes lighting, basin design, and deck construction for commercial pools. No previous architecture experience required.	College of Health	Kinesiology	UG
AQUA	458	Aquatic Leadership and Staff Development		X	Provides information to become an effective leader. Aquatic facility financial management is discussed in depth, as accounting principles apply to aquatic facilities. Certification for aquatic leadership is available if the student meets the required qualifications. Optional certification fee.	College of Health	Kinesiology	UG
AQUA	479	Aquatics Internship		X	Full-time work and learning practical experience on- or off-campus in an aquatic-related setting. Prerequisite: permission of the program coordinator. Open only to aquatic degree students.	College of Health	Kinesiology	UG
ARCH	314	Architectural Building Technology 2	X		Methods and materials of architectural construction. Emphasizes interface of material selections and construction technology in the design, production, and construction process. Production of construction documentation. Prerequisite: ARCH 214. Open only to B. ARCH; BA/BS architecture; BA/BS environmental design.	Architecture and Planning	Architecture	UG
ARCH	318	Structural Systems 2		X	Strength of materials, stress, strain, and modulus of elasticity. Introduction to steel systems and their application to the design of horizontal and vertical building systems. Introduction to lateral force systems for earthquake and wind. Prerequisite: ARCH 218. Open only to B. ARCH; BA/BS architecture; BA/BS environmental design.	Architecture and Planning	Architecture	UG

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ARCH	320	Introduction to Professional Practice	X		Exposure to diverse practice models in architecture and related fields (professional mentorship, case study research, analysis of diverse roles and relationships of key stakeholders in the architectural profession and allied disciplines) and application of these experiences to practice scenarios (role playing, collaborative teamwork and practice plan development/marketing proposals). Provides experience with the diverse breadth of architectural practices to inform students' professional path. Open only to B.ARCH; BA/BS architecture; environmental design.	Architecture and Planning	Architecture	UG
ARCH	329	History of Architecture 2		X	Survey of the movements and major figures in architecture and design from the late nineteenth century to the present, with consideration given to the social and cultural context of design ideas. Prerequisite: ARCH 229. Open only to B. ARCH; BA/BS architecture; BA/BS environmental design; HP minors or permission of the department chairperson.	Architecture and Planning	Architecture	UG
ARCH	340	Introduction to Historic Preservation for Architects		X	The introduction of historic preservation in the context of architectural practice. Students will become familiar with the significant public and private Preservation agencies and organizations, along with the roles they play in the Preservation movement. The legal basis of preservation will be surveyed, as well as the process for documenting, designating, and protecting historic properties. Preservation treatment and re-use options will be discussed in light of conservation, sustainability and cultural continuity. Open only to B. ARCH; BA/BS architecture; BA/BS environmental design.	Architecture and Planning	Architecture	UG
ARCH	400	Comprehensive Architecture Studio	X		Architecture studio involves architectural design explorations requiring integrated evaluations and decision-making in the design process. Projects will demonstrate consideration and integration of environmental and structural systems, environmental stewardship, technical documentation, accessibility, site conditions, life safety, and building envelope systems and assemblies. Prerequisite: ARCH 302. Parallel: ARCH 420. Open only to B. ARCH majors.	Architecture and Planning	Architecture	UG
ARCH	401	Architectural Design	X		Capstone project: a design-based study in depth requiring students to reflect on and synthesize previous course work. Prerequisite: ARCH 301. Open only to BA/BS architecture.	Architecture and Planning	Architecture	UG

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ARCH	402	Architectural Design	X		ARCH 402 allows students to engage in architectural design projects on or off campus providing students a high degree of self-direction. Draws on knowledge and skills of previous course work. Both ARCH 405 and 406 (two independent summer programs) must be completed to obtain substitute credit for ARCH 402. Prerequisite: ARCH 301. Open only to BA/BS architecture.	Architecture and Planning	Architecture	UG
ARCH	403	Architecture Design Studio	X		Architecture design studio investigating topical architectural problems that may have an interdisciplinary and/or applied aspect. Within this, students are expected to increasingly define their design values and effective methods for engaging and representing them. Prerequisite: ARCH 400. Parallel: ARCH 424. Open only to B. ARCH.	Architecture and Planning	Architecture	UG
ARCH	404	Architecture Final Project Studio	X		Conceptual and design development processes applied to a student initiated and defined architecture design final studio project. Prerequisite: ARCH 403; ARCH 424. Open only to B. ARCH majors.	Architecture and Planning	Architecture	UG
ARCH	405	Architectural Design	X		Incremental versions of ARCH 402 that allow students to engage architectural design projects on or off campus providing students a high degree of self-direction. Draws on knowledge and skills of previous course work. Both ARCH 405 and 406 (two independent summer programs) must be completed to obtain substitute credit for ARCH 402. Prerequisite: ARCH 202. Open only to architecture majors.	Architecture and Planning	Architecture	UG
ARCH	406	Architectural Design	X		Incremental versions of ARCH 402 that allow students to engage architectural design projects on or off campus providing students a high degree of self-direction. Draws on knowledge and skills of previous course work. Both ARCH 405 and 406 (two independent summer programs) must be completed to obtain substitute credit for ARCH 402. Prerequisite: ARCH 202. Open only to architecture majors.	Architecture and Planning	Architecture	UG
ARCH	407	Fourth World Theory	X		Fourth World Theory examines the physical, political, socio-economical and institutional abandonment of the American Inner-city and investigates the causes which have led to the massive disinvestment. This course attempts to develop a sense of empathy for the citizens who choose or are forced to remain in these often severely distressed environments. Fourth World Theory employs critical inquiry that may better qualify us to be engaged in improving the conditions of our inner cities and of the United States as a whole.	Architecture and Planning	Architecture	UG

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ARCH	420	Professional Practice	X		Overview of the essential aspects of the architectural profession. Subjects include: stakeholder roles in architecture; project management; business practices; financial considerations; legal responsibility; ethics and professional conduct. Parallel: ARCH 400. Open only to B. ARCH majors.	Architecture and Planning	Architecture	UG
ARCH	426	Preservation and Documentation of Historic Buildings	X		Introduces the special qualities of design and craftsmanship in historic buildings, districts, and landscapes. Emphasizes skills needed to document historic properties through written and graphic means. Surveys guidelines for rehabilitation and criteria for identifying historic properties. Prerequisite: ARCH 329.	Architecture and Planning	Architecture	UG
ARCH	501	Design Thinking and Foundations Studio	X		Introduction to architectural design skills, principles, and processes through a series of projects that address spatial thinking, concept formulation, ordering systems, precedent research, and investigative skills. Projects focus on conditions of scale, material, tectonics, and context in both built and natural environments. Conceptualization, representation, visualization and communication skills are developed.	Architecture and Planning	Architecture	GR
ARCH	502	Environmental Design and Site Context Studio		X	Design projects address surrounding environmental parameters in creating strategies, programs, and buildings, while integrating multiple issues of design thinking and context characteristics in multiple, diverse sites. Sustainability principles in design are introduced and applied with emphasis on merging environmental concerns with human desires and needs.	Architecture and Planning	Architecture	GR
ARCH	503	Design Application Workshop	X		Design workshop focusing on the synthesis of previous course work and the application of architectural design skills in a built investigation. Introduction to collaborative design-build methods while integrating concepts and methods of material assemblies, prototyping, fabrication, stakeholder's roles, community participation, scheduling, and construction cost estimating.	Architecture and Planning	Architecture	GR
ARCH	507	Fourth World Theory	X		Fourth World Theory examines the physical, political, socio-economical, and institutional abandonment of the American inner-city and investigates the causes which have led to the massive disinvestment. Attempts to develop a sense of empathy for the citizens who choose or are forced to remain in these often severely distressed environments. Fourth World Theory employs critical inquiry that may better qualify us to be engaged in improving the conditions of our inner-cities and of the United States as a whole. Prerequisite: graduate standing or permission of the program director.	Architecture and Planning	Architecture	GR

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ARCH	509	Readings in Social and Environmental Justice	X		Selected readings and follow-up discussion in the topic area as guided by the course instructor. Prerequisite: graduate standing or permission of the program director. Parallel: ARCH 510 and 511.	Architecture and Planning	Architecture	GR
ARCH	510	Field Study in Social and Environmental Justice	X		Off-campus study in the topic area as approved by the course instructor. Prerequisite: graduate standing or permission of the program director. Parallel: ARCH 509 and 511.	Architecture and Planning	Architecture	GR
ARCH	511	Documentation in Social and Environmental Justice	X		Written report resulting from a field study in the topic area. Prerequisite: graduate standing or permission of the program director. Parallel: ARCH 509 and 510.	Architecture and Planning	Architecture	GR
ARCH	514	Introduction to Architectural Building Technology	X		Introduction to methods and materials of architectural construction. Emphasizes interface of material selections and construction technology in the design, production, and construction process. Includes study of building construction, materials and methods, building assemblies, and the integration of building technology principles into the design process. History, theory, technology, and practice is integrated into architectural building technology.	Architecture and Planning	Architecture	GR
ARCH	530	History of Architecture, Planning, and Engineering in the Midwest	X		Analysis of the development of architecture, planning, engineering (canals, railroads, roads, bridges), and industrial architecture in the American Midwest from the frontier period through the twentieth century. Field trips to selected sites. Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director. Not open to students who have credit in ARCH 430 or equivalent.	Architecture and Planning	Architecture	GR
ARCH	570	Passive Environmental Systems		X	Passive building environmental systems (enclosure, heating, cooling, ventilating, daylighting, and acoustics). An overview of environmental forces and human, material, and assembly responses to such forces; within the context of historic and current concerns and with a focus on energy, water, and material resource utilization.	Architecture and Planning	Architecture	GR
ARCH	600	Architecture Workshop	X		Graduate architecture workshop involves short exploratory architectural exercises or projects. Prerequisite: graduate standing or permission of the program director.	Architecture and Planning	Architecture	GR

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ARCH	601	Community Engaged Applied Learning Design Studio	X		Community-oriented design explorations allow students to embrace a collaborative spirit, strong work ethic, applied research design, careful attention to details, service to the community, and best practices toward achieving quality design, economic viability, equitable procedures, and community livability. Connecting students with the potential of architectural design to embrace community priorities, initiatives, and key stakeholders while positively shaping the constructed environment.	Architecture and Planning	Architecture	GR
ARCH	602	Integrated Architecture Design Studio	X		Synthesis of a wide range of variables from diverse and complex systems into an integrated architectural solution. Students demonstrate their ability to comprehend site conditions, structural, environmental, and building systems and assemblies, accessibility and life safety, environmental stewardship, and technical documentation. Scope and type of project will require applied research methodologies and an integrated evaluation and decision-making process across multiple systems to inform the design process.	Architecture and Planning	Architecture	GR
ARCH	603	Multi-Disciplinary Design Knowledge Studio	X		Studio supports an issues-based, teamwork model where students engage complex questions based on a design-thinking foundation enhanced with methodologies and processes from a multi-disciplinary perspective. Partnering with allied disciplines, students discern how to integrate knowledge from other disciplines into their own knowledge and expertise in meaningful ways. Students increasingly define their own interests and take initiative in defining design concepts and processes in reference to overall multi-dimensional studio project.	Architecture and Planning	Architecture	GR
ARCH	618	Applied Systems Thinking		X	Advanced course in the selection, design, and integrated application of structural systems, environmental systems, building systems, and project assemblies in architecture. Emphasis on whole building thinking from site evaluation to building performance. Exploration and application of advanced technologies and inventive building systems, while committed to research and development of sustainable, affordable and equitable practices.	Architecture and Planning	Architecture	GR

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ARCH	624	Applied Architectural Building Technology	X		Exploration of methods and materials of architectural construction with a focus on applied learning, combining theoretical knowledge with practical skills and technical training. Practical applications in construction drawing, building material selection and assembly, building envelope systems, estimating techniques, and computer applications. Production of technical documentation related to design studio project. Exploration of critical topics for the future of the built environment and natural resources to use design and technology to create architecture that contributes to a more humane and environmentally responsible built world.	Architecture and Planning	Architecture	GR
ARCH	633	PHIUS Passive Building Rating System		X	A detailed exploration of the PHIUS passive building rating system, with support for students interested in becoming Certified Passive House Consultants. Prerequisite: graduate standing; permission of graduate program director.	Architecture and Planning	Architecture	GR
ARCH	641	Citizenship, World Views, and the Public Sphere	X		Addresses ethical, social, cultural, political forces, as well as world views that frame the discourse of citizenship and the public sphere as it relates to issues of social justice in the design of the built environment. Explores theoretical frameworks in order to understand architecture as a social and cultural construct. The pedagogical objective is to encourage analysis, synthesis, and critical thinking. Prerequisite: graduate standing or permission of the program director.	Architecture and Planning	Architecture	GR
ARCH	644	Theories of Sustainability		X	Students explore ideas and assumptions behind green building and sustainable design. Philosophies and concepts of nature, design and technology are investigated and discussed. Students develop and share their understanding of sustainability and green building grounded in both current and established theories. Prerequisite: graduate standing or permission of the program director.	Architecture and Planning	Architecture	GR
ARCH	653	Introduction to Social and Environmental Justice	X		Introduces students to social and environmental justice issues in the design of the built environment as related to human rights, social equity, dignity, status, stigma, marginalization, discrimination and several other aspects of justice. Students focus on how these issues are embodied in the environment, reflecting and reinforcing the nature of power relations in society.	Architecture and Planning	Architecture	GR

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ARCH	670	Elements of High-Performance Buildings		X	An overview of high-performance building characteristics, including: thermal, visual, and acoustic comfort; indoor air quality; energy consumption; water consumptions; material impacts; greenhouse gas emissions; and resilience. Prerequisite: graduate standing; permission of graduate program director.	Architecture and Planning	Architecture	GR
ARCH	671	LEED Green Building Rating System		X	A detailed exploration of the LEED BD&C green Building rating system, with support for students interested in becoming LEED accredited professionals. Prerequisite: graduate standing; permission of graduate program director.	Architecture and Planning	Architecture	GR
ARCH	672	WELL Building Rating System		X	A detailed exploration of the WELL building rating system, with support for students interested in becoming WELL accredited professionals. Prerequisite: graduate standing; permission of graduate program director.	Architecture and Planning	Architecture	GR
ARCH	673	PHIUS Passive Building Rating System		X	A detailed exploration of the PHIUS passive building rating system, with support for students interested in becoming Certified Passive House Consultants. Prerequisite: graduate standing; permission of graduate program director.	Architecture and Planning	Architecture	GR
BIO	100	Biology for a Modern Society	X		Considers biological issues related to the environment, genetics and biotechnology, human reproduction and development, and population biology. Historical, contemporary, and future implications of these issues are discussed. Not open to students who have credit in BIO 102, 111, or 112.	Sciences and Humanities	Biology	UG
BIO	102	Biological Concepts for Teachers	X		Principles of biology as they relate to energy requirements and reproductive processes of living organisms, including the study of plants and conservation with emphasis on the human role in the environment. Designed primarily for students in elementary education programs.	Sciences and Humanities	Biology	UG

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BIO	111	Principles of Biology 1	X		Designed for biology, allied health, and other science majors. Emphasis at cellular level: chemical and physical organization of life, prokaryotic and eukaryotic cell structure and function, bioenergetics, cell division, genetics, gene expression, protein synthesis, and evolution. Lecture and laboratory. Prerequisite: one year of high school chemistry, one semester of college chemistry, or the equivalent.	Sciences and Humanities	Biology	UG
BIO	112	Principles of Biology 2	X		Examines the diversity, evolutionary relationships, ecology, and physiology of organisms in the animal kingdom with an introduction to the protozoans. Emphasizes structure and function at the organismal level, classification, and phylogenetic relationships. Lecture and laboratory.	Sciences and Humanities	Biology	UG
BIO	210	Introduction to Botany	X		Examines evolutionary solutions to problems of survival and reproduction faced by plants and their allies (plants, fungi, protists). Problems are investigated from a structure-function basis in an evolutionary-phylogenetic survey. Physiological processes are emphasized, including the selective pressures involved in the evolution of these mechanisms. Lecture and laboratory. Prerequisite: BIO 112. Prerequisite recommended: BIO 111.	Sciences and Humanities	Biology	UG
BIO	216	Ecology		X	Effects of physical and biotic conditions on the distribution, abundance, and diversity of plants and animals. Dynamics of ecological systems at population, community, ecosystem, landscape, and global levels, and from an evolutionary perspective. Practical applications of ecological knowledge to environmental problems. Prerequisite: BIO 112.	Sciences and Humanities	Biology	UG
BIO	220	Ecological Issues in the 21st Century		X	Fundamental concepts of ecology, including interactions between organisms and their environment, population/community dynamics, and structure/function of ecosystems. Application of concepts to current ecological issues (e.g., species extinction, human population dynamics, human food production systems, natural resource depletion, and global environmental change). Intended for non-biology majors. Not open to students who have credit in BIO 216. Open only to non-biology majors.	Sciences and Humanities	Biology	UG
BIO	316	Methods in Ecology		X	Introduction to scientific study designs, measurements, data analysis, and the logic of inference as applied to ecological research. Focuses on a field research project that culminates in a written report and an oral presentation. Prerequisite or parallel: BIO 216.	Sciences and Humanities	Biology	UG

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BIO	401	Developments in Modern Biology	X		Stresses recent discoveries in biology and integrates and enhances understanding of the basic principles of the discipline. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned.	Sciences and Humanities	Biology	UG
BIO	416	Population Ecology		X	Presents fundamental principles of population growth and regulation, including both within-species and between-species interactions. Implications for over-population, endangered species, and pest and game management are discussed. Laboratory includes both experimental studies and computer simulation exercises. Prerequisite: BIO 216.	Sciences and Humanities	Biology	UG
BIO	418	Community and Ecosystem Ecology		X	Principles of ecological organization at the community and ecosystems levels. Emphasizes the processes that influence the structure and function of communities and ecosystems. Laboratory includes field and lab studies of plant and animal systems. Prerequisite: BIO 216.	Sciences and Humanities	Biology	UG
BIO	419	Biogeography	X		Understanding of principles of biogeography including plant and animal distributions. Prerequisite: BIO 111 and 112 or permission of the department chairperson.	Sciences and Humanities	Biology	UG
BIO	420	Field Biology of Distant Areas	X		Includes study of the sciences peculiar to selected geographic areas. Ecology, flora, and fauna. Travel may be by air. Seminars may be scheduled regularly throughout the course. Registration fee may include travel charges as well as the general fee. Prerequisite: permission of the department chairperson. A total of 12 credits may be earned.	Sciences and Humanities	Biology	UG
BIO	430	Conservation Biology		X	<p>Conservation Biology is the field that seeks to study and protect the living world and its biological diversity (or biodiversity in its shortened form). This field emerged during the mid-1980's as a major new discipline to address the alarming loss of biological diversity. Conservation Biology is the scientific discipline that brings together people and knowledge from many different fields to address the biodiversity crisis.</p> <p>Prerequisite: BIO 111 and BIO 112 and BIO 216 or their equivalents or by permission of the instructor.</p>	Sciences and Humanities	Biology	UG

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BIO	450	Animal Behavior	X		Provides students with a broad introduction to animal behavior and uses principles derived from evolution, ecology, physiology, genetics, endocrinology, and development to explain how and why animals behave as they do. Topics include genetic, neural, and hormonal control of behavior; feeding behavior; reproductive behavior; learning; animal conflict; social behavior; parental care; and communication. Behavioral ecology and the evolution of behaviors as adaptations are recurring themes interwoven through all topics discussed. Prerequisites: BIO 112 or its equivalent.	Sciences and Humanities	Biology	UG
BIO	482	Aquatic Microbiology	X		Microorganisms indigenous to nonpolluted and polluted aquatic ecosystems. Emphasizes nutrient cycling and use of microorganisms as indicators of pollution. Morphology, physiology, and ecology of specific organisms. Lecture and laboratory. Prerequisite: BIO 313.	Sciences and Humanities	Biology	UG
BIO	483	Marine Biology	X		Introduction to marine environments. Properties of seawater, hydrodynamics. Phytoplankton and benthic plants. Primary production, nutrient cycles. Marine animals, surveys of major taxa. Adaptations for life on the bottom, open water, intertidal zones, estuaries, and abyssal regions.	Sciences and Humanities	Biology	UG
BIO	492	Bioethical Decision Making	X		Development of decision-making skills through the analysis and personal resolution of bioethical problems created by the application of new biological and biomedical knowledge and technologies. Prerequisite: junior standing and completion of the University Core Curriculum natural sciences component or permission of the department chairperson.	Sciences and Humanities	Biology	UG
BIO	520	Field Biology of Distant Areas		X	The species peculiar to selected geographic areas. Ecology, flora, and fauna. Travel may be by air. Seminars may be scheduled regularly throughout the course. Registration fee may include travel charges as well as the general fee. Prerequisite: permission of the department chairperson. A total of 12 credits may be earned.	Sciences and Humanities	Biology	GR
BIO	582	Aquatic Microbiology		X	Microorganisms indigenous to nonpolluted and polluted aquatic ecosystems. Emphasizes nutrient cycling and the use of microorganisms as indicators of pollution. Morphology, physiology, and ecology of specific organisms. Lecture and laboratory. Prerequisite: BIO 313. Not open to students who have credit in BIO 482.	Sciences and Humanities	Biology	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
BIO	582	Aquatic Microbiology	X		Microorganisms indigenous to nonpolluted and polluted aquatic ecosystems. Emphasizes nutrient cycling and the use of microorganisms as indicators of pollution. Morphology, physiology, and ecology of specific organisms. Lecture and laboratory. Prerequisite: BIO 313. Not open to students who have credit in BIO 482.	Sciences and Humanities	Biology	GR
BIO	616	Population-Community Ecology		X	Fundamental principles of population growth and regulation, community structure and diversity, focusing on intra- and interspecific interactions. Implications for over-population, endangered species, and pest and game management are explored. Principles of ecological organization are evaluated at the community level with an emphasis on the processes that influence community structure and function. The laboratory will use computer simulations and analysis of ecological data to test hypotheses, critically review research results/theories and formulate new questions. Prerequisites: BIO 216 or equivalent introductory ecology course.	Sciences and Humanities	Biology	GR
BIO	619	Biogeography	X		Biogeography is the science of spatial patterns of biological diversity, including all patterns of geographic variation in the distribution of plants and animals, from genes to entire communities and ecosystems. The course is designed to stimulate student interest in how and why biodiversity varies over the surface of the Earth. Not open to students who have credit in BIO 419.	Sciences and Humanities	Biology	GR
BIO	656	Ecosystem Ecology		X	Principles and application of ecosystem ecology. Provides students with an understanding of concepts in modern ecosystem ecology and with an in-depth analysis of ecosystem components, processes, and factors that control them. Prerequisite: BIO 216 or equivalent, or permission of the instructor.	Sciences and Humanities	Biology	GR
CAP	101	Environmental Design and Planning 1		X	Basic problem solving related to abstract and historical and contemporary problems in environmental design. Elements of space, form, function, and human use as they affect the natural and built environments.	Architecture and Planning	Coll of Architecture & Plan	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
CAP	102	Environmental Design and Planning 2		X	Basic problem solving related to abstract and historical and contemporary problems in environmental design. Elements of space, form, function, and human use as they affect the natural and built environments. Methods for environmental design communications in a variety of media. Prerequisite: CAP 101.	Architecture and Planning	Coll of Architecture & Plan	UG
CHEM	627	Environmental Chemistry	X		Designed to provide graduate students from Biology, Chemistry, and Environment, Geology, and Natural Resources with in-depth understanding of the different types of environmental contaminants and the range of analytical methods available to detect and monitor their levels in different media. This includes fundamental and applied chemistry topics relevant to the environmental sciences. Knowledge of college level general and organic chemistry is recommended. Prerequisite: permission from the chair of the Department of Chemistry is required.	Sciences and Humanities	Chemistry	GR
CJC	211	Race, Gender, and Crime	X		Examines racial, ethnic, gender, and class issues regarding criminal offenders, victims, and employees of the criminal justice system. Focus is given to the development of cultural competency skills and practices. Prerequisite: CJC 101 and 102 or by permission of the department chairperson. Open only to CJC majors and minors.	Sciences and Humanities	Criminal Justice & Criminology	UG
CJC	309	Juvenile Justice and Delinquency	X		This course examines theoretical explanations of delinquency and the juvenile justice system. Delinquency is examined from numerous perspectives, including the role of families, communities, schools, and genetics. The examination of responses to delinquency include those by the police, courts and correctional institutions. Prerequisite: CJC 101 and 102. Open only to CJC majors and minors.	Sciences and Humanities	Criminal Justice & Criminology	UG
CJC	332	Victimology	X		The purpose of this course is to examine the correlation of victimization and victimization theories. It also examines victims' reactions and various responses made to victims by the criminal justice system and other societal agencies. Prerequisite: CJC 101 and 102. Open only to CJC majors and minors.	Sciences and Humanities	Criminal Justice & Criminology	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
CJC	341	Community Corrections	X		This course examines the organization and operation of community-based correctional programs throughout the United States. Topics include probation, parole, halfway houses, group homes, diversion, restitution, and community service programs, with an emphasis on best practice. Prerequisite: CJC 101 and 102 and 240. Open only to CJC majors and minors.	Sciences and Humanities	Criminal Justice & Criminology	UG
CJC	369	Paid Professional Experience in Criminal Justice and Criminology	X		Paid, individual assignment under field supervision in one of a variety of criminal justice settings. Prerequisite: senior standing, 2.5 grade-point average, permission of the department chairperson. A total of 15 credits may be earned. Not open to students who have credit in CJC 479. Open only to CJC majors.	Sciences and Humanities	Criminal Justice & Criminology	UG
CJC	398	Human Services in Criminal Justice	X		This course examines offender characteristics and needs, and explores how human services can meet those needs. Special attention is paid to human service policies and practices in prevention efforts, criminal justice interventions, and reentry. Prerequisite: CJC 101 and 102. Open only to CJC majors and minors.	Sciences and Humanities	Criminal Justice & Criminology	UG
CJC	479	Professional Experience in Criminal Justice and Criminology	X		Non-paid, individual assignment under field supervision in one of a variety of criminal justice settings. Prerequisite: senior standing, 2.5 grade-point average, permission of the department chairperson. A total of 15 credits may be earned. Not open to students who have credit in CJC 369. Open only to CJC majors.	Sciences and Humanities	Criminal Justice & Criminology	UG
CJC	495	Capstone in Criminal Justice	X		As the capstone class for CJC majors, this course evaluates data driven and evidence-based practices in criminal justice. Evaluations of criminal justice practices include historical information as well as current evidence-based and data driven practices within the field. Open only to CJC majors with senior status.	Sciences and Humanities	Criminal Justice & Criminology	UG
CM	104	Introduction to Construction	X		Overview of the aspects of construction management including designer-builder relationships, construction documents, estimating, scheduling, project management, safety, materials, and other relevant subjects.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	230	Renovation of Residential Structures	X		An immersive learning class focusing on the processes, strategies, and documents involved in the renovation of residential structures. Interdisciplinary teams of students will work with local community organizations and agencies to develop renovation plans for existing houses, including the development of preliminary preconstruction documentation needed for this type of work. A total of 6 credits may be earned.	Architecture and Planning	Construction Mgt & Int Design	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
CM	261	Mechanical Construction Management	X		The study of managing the construction of mechanical systems, including codes, design, methods, and materials related to plumbing, heating, ventilation, air conditioning, and fire sprinkler systems. Prerequisite: CM 104 and 106 and 180.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	262	Electrical Construction Management	X		The study of managing the construction of electrical systems, including codes, design, methods, and materials. Prerequisite: CM 104 and 106 and 180.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	299X	Special Topics in Construction Management	X		Special topics relevant to the construction management profession. Course titles will be announced before each semester. A total of 9 credits may be earned.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	302	Highway Construction 1	X		Basic knowledge of sources, properties, design methods, standards, tests, and uses of materials in various types of highway construction. Prerequisite: CM 250.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	310	Ethics in Construction	X		Examines professionalism within the modern construction industry. Traces the development of building professions with regard to the foundations of current practice. Focuses on career options and planning, leadership, ethics, and ethical practice using case studies and selected readings. Prerequisite: CM 104.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	315	Sustainable Construction		X	Provides detailed knowledge related to sustainable construction. Emphasis will be on green building rating systems, and course work includes case studies, guest speakers, field trips, investigation of green materials, and a term project.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	320	Estimating	X		An introduction to estimating in construction. Reviews and incorporates knowledge of construction planning and processes, developing estimates using labor costs, and standards used by the industry. Prerequisite: CM 104, 180, or permission of the department chairperson.	Architecture and Planning	Construction Mgt & Int Design	UG
CM	400	Construction Project Management	X		The study of project management concepts, procedures, and practices common in the construction industry. Includes construction project management concepts, roles, and responsibilities; labor relations; administrative systems and procedures; cost control data and procedures; documentation at job site and office; change orders; submittal processes; quality control philosophies and techniques; and computer applications. Prerequisite: CM 104, 180, 320, 355, or permission of the department chairperson.	Architecture and Planning	Construction Mgt & Int Design	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
CM	460	Capstone in Construction	X		A construction product, process, or system is studied. Conduct in-depth research on an approved topic related to construction. Results of the research are formally presented to peers and faculty. Prerequisite: CM 222, 320, 355. Prerequisite or parallel: CM 400 and 420. Open only to majors in construction management with senior status.	Architecture and Planning	Construction Mgt & Int Design	UG
CT	300	Sustainability in Information Technology		X	A study of sustainability issues related to the field of information technology. Explores the environmental, economic, and human impact of information technology. Prerequisite: sophomore standing.	Commun., Info. and Media	Info, Comm Sciences	UG
CT	335	Private Cloud Infrastructure	X		This course will focus on the design and implementation of private cloud data centers. Emphasis will be placed provisioning Infrastructure as a Service (IaaS) on cloud computing platforms such as VMware vCenter, OpenStack, or CloudStack which are scalable, secure, and resilient. Prerequisite: minimum grade of C- in CT 321.	Commun., Info. and Media	Info, Comm Sciences	UG
CT	460	Technology Leadership	X		Students will prepare to transition into their roles as future technology leaders. The course will focus on the non-technical characteristics of effective technology leaders and introduce students to the ITIL framework for IT management. Restrictions: Senior standing; juniors with special permission.	Commun., Info. and Media	Info, Comm Sciences	UG
DANC	100	Introduction to Dance History	X		A University Core Curriculum course offering an extensive introduction to the understanding and appreciation of the many facets of creativity in dance through a variety of activities, including viewing, movement experiences, and discussing dance forms from primitive through contemporary times, and the historical and social elements that helped to shape these forms. Not open to students majoring in Dance.	Fine Arts	Theatre and Dance	UG
DANC	104	Worlds of Dance	X		Introductory study of the various global forms and theories of dance. Prerequisite: DOTD 103 with grade of C or better. Open only to majors in Dance.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
DANC	200	Dance Science	X		An introduction to the basic knowledge of the human body in specific relation to dance, including studies of the musculoskeletal systems, nervous system, and kinesiology, as well as common dancer pathologies, injury prevention, and body maintenance. Additional topics may include the function of anatomical structures of the human body, the bio-mechanical principles of these structures and the integration of these systems, and specialized study of specific body therapies utilized to preserve, protect, and maintain a dancer's instrument. Prerequisite: DOTD 103 with a C or higher. Open only to Majors in Dance.	Fine Arts	Theatre and Dance	UG
DANC	300	Body Conditioning and Maintenance	X		A specialized study of specific body therapies utilized to preserve, protect, and maintain a dancer's instrument. This course may include Pilates, yoga, proprioceptive neuromuscular facilitation techniques, relaxation techniques, somatic practices, massage techniques, diet and wellness. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned, but no more than 2 in any one semester or term.	Fine Arts	Theatre and Dance	UG
DANC	301	Dance History 1	X		The study of early dance forms to 1900. Discussion and research will reflect the culture and societal attitudes of the time period and the relationship with dance and the other arts. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
DANC	302	Dance History 2	X		The study of early dance forms to 1900. Discussion and research will reflect the culture and societal attitudes of the time period and the relationship with dance and the other arts. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
DANC	387	Choreography 1	X		Guided creative process to develop choreography using improvisation and basic elements of dance. Students explore and develop studies using time, space, energy, rhythm, and design. Emphasizes solo work and small group structures developing a personal voice. Students participate in analyzing and critiquing dance through performance, written assignments, discussions, and journals. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
DANC	401	Advanced Topics in Dance Studies	X		Engage students in current trends and issues within the field of dance studies. Informed by race studies, gender studies, disability studies, economics, and politics as students explore the intersections of these topics with global contemporary dance. A space for praxis, as students write and move in response to readings, discussions, and film viewings. Additionally will delve into the writing of dance, repositioning and rehearsing writing as a means of choreographing ideas. Prerequisite: permission of the department chairperson. Open only to theatre and dance majors.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
DANC	487	Choreography 2	X		A continuation of the exploration of choreographic theories and processes from Choreography 1. Emphasis is on group structures from duets to quintets. Students will participate in analyzing and critiquing dances through research, written assignments, discussions, and journals. Prerequisite: permission of the department chairperson. A total of 4 credits may be earned, but no more than 2 in any on semester or term.	Fine Arts	Theatre and Dance	UG
DANC	488	Dance Pedagogy	X		Teaching methods applied to ballet, modern, jazz, and creative movement. Class explores methods of teaching dance from preschool through adults in private studios, public schools, and higher education. Observation of master teachers, supervised teaching experiences, evaluations, critiques of teaching skills, development of lesson plans, self assessment, and teaching philosophies required. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
DANC	498	Advanced Dance Pedagogy	X		Advanced teaching methods applied to ballet, modern, jazz, and creative movement for students intending on teaching professionally in an academic or studio setting. Prerequisite: DANC 488 with minimum grade of C	Fine Arts	Theatre and Dance	UG
DOTD	100	First Year Experience	X		Introduces departmental, collegiate, and university courses, programs, practices, and policies. Intended to assist transition to university life. Open only to theatre and dance majors.	Fine Arts	Theatre and Dance	UG
DOTD	103	The Art of Storytelling	X		Introductory course in the foundational ideas of storytelling as they are integral to the understanding of and creation of works of dance and theatre. Topics will include various theoretical and conceptual lenses for understanding performed works of art. Students will read and watch plays and dances. Required departmental core curriculum course for all majors and minors in theatre or dance.	Fine Arts	Theatre and Dance	UG
DOTD	200	Branding and Marketing for the Theatre and Dance Artist	X		Overview of the various personal branding and marketing skills and applications necessary to prepare theatre and dance students for professional internships and post-graduate employment. Areas covered will include digital presence/portfolio, theatre/dance cover letters, resumes, and head-shots, and other branding and marketing approaches specific to the discipline. Open only to majors in theatre and dance. Prerequisite: C or better in DOTD 100	Fine Arts	Theatre and Dance	UG

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DOTD	201	Building Worlds Through Design and Collaboration	X		An introduction to collaboration and design as applicable to and beyond performance, to create worlds/environments that speak to multiple identities, transcending familiar performance conventions, and expanding beyond the worlds in which students are already comfortable/familiar. Required departmental core curriculum course for all majors in theatre and dance. Prerequisite: DOTD 103 with grade of C or better	Fine Arts	Theatre and Dance	UG
DOTD	301	Art, Communities, and Social Consciousness	X		The course seeks to examine the aesthetic, cultural, political, and environmental issues within communities and how creating art - theatre and dance specifically - within our communities can have a positive effect on the communities in which we live. This course will bridge between the student's craft and the ways they passionately engage the world. Required departmental core curriculum course for all majors and minors in theatre or dance. Prerequisite: DOTD 201 with grade of C or better	Fine Arts	Theatre and Dance	UG
ECON	116	Survey of Economic Ideas	X		The important conclusions of economics are surveyed and applied to topics chosen by the instructor. Especially valuable to students with no high school background in economics. Not applicable to a major or minor in economics. Not open to students who have credit in ECON 201 or 202.	Miller College of Business	Economics	UG
ECON	201	Elementary Microeconomics	X		A study of why people specialize as producers and exchange what they produce with others. Includes analysis of how market structure affects prices. Discusses the issue of whether self-interested economic behavior promotes or hinders society.	Miller College of Business	Economics	UG
ECON	301	Intermediate Microeconomics	X		An investigation of the ways in which economic units direct resources into production. Involves analyses of product pricing, output determination, resource pricing, and employment in various market structures. Includes graphical and, in some instances, simple algebraic analyses. Prerequisite: ECON 201 with a minimum grade of C; ECON 202.	Miller College of Business	Economics	UG
ECON	311	Environmental Economics		X	Application of economic analysis to pollution, natural resource usage, and sustainability. "Sustainability" expands the concepts of economic growth and optimization to include a balanced set of goals that include environmental carrying capacity, social and intergenerational equity, and community values. Prerequisite: minimum grade of C in ECON 116 or 201 or permission of the instructor.	Miller College of Business	Economics	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
ECON	345	The Economics of Government Budgets	X		Analysis of economic theory behind alternative methods of financing government budgets and debt management. Emphasizes economic consequences of budgets by examining incidence, shifting, and incentives regarding provision of public services and alleviation of economic insecurity. Prerequisite: minimum grade of C in ECON 201.	Miller College of Business	Economics	UG
ECON	346	Economic Analysis of Legal Issues	X		Applies microeconomic analysis to legal issues such as property rights, crime, contracts, and liability rules. Strengthens the ability to engage in economic reasoning by demonstrating its applicability to law and economics. Prerequisite: minimum grade of C in ECON 201.	Miller College of Business	Economics	UG
ECON	348	Health Economics	X		Examines how institutions and incentives affect the health care choices people make. Topics include the demand and supply of medical care, the effects of health insurance, professional licensing, pharmaceutical regulations, and government involvement in health care. Prerequisite: minimum grade of C or better in ECON 201 and 221.	Miller College of Business	Economics	UG
ECON	485	Urban Economics	X		The systematic economic structure of cities and the component parts of that structure. Attention is given to the ways in which the economic structure of cities and regions obstructs or facilitates the attainment of the goals of the community. Prerequisite: minimum grade of C in ECON 201.	Miller College of Business	Economics	UG
ECON	683	Health Economic Analysis	X		Studying health economics will provide students with the tools necessary to analyze the interrelationship of health-care resources, providers, consumers, and markets. By the end of this course, students will demonstrate a conceptual understanding of health economics and how it relates to the U.S. health-care system. Prerequisite: ECON 201 or BUSA 602 or ECON 662 or MBA 651 or NUR 662 or permission of the department chairperson.	Miller College of Business	Economics	GR
ECON	693	Health Economics and Policy	X		Applies economic concepts to understand how policy decisions made at various levels (of business and government) affect health-care access, quality, and cost. Specific applications may be drawn from the life sciences industry. Prerequisite: ECON 116 or ECON 201 or ECON 662 or ECON 683 or BUSA 683 or BUSA 602 or NUR 662.	Miller College of Business	Economics	GR

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ECYF	100	Introduction to Early Childhood, Youth, and Family Studies	X		Introductory course concerning the interdisciplinary nature of early childhood, youth, and family studies. Concepts include the profession's common body of knowledge, diversity, public policy, critical and creative thinking, professional ethics, and Indiana and professional association standards. Includes discussion of career exploration, required sequence of program curriculum, internships, practicums, and/or student teaching. Includes 40 hours of mandatory service learning. Course may be repeated only once. Open only to early childhood licensure majors and family and child majors.	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	202	Child and Family Wellness		X	Explore the concepts of wellness, emphasizing nutrition, health and safety as it applies to children and families. Increase awareness of the need for healthy environments and use of sustainable and age appropriate practices in environments with families and children.	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	250	Family Relations	X		Focuses on family dynamics and interaction across a variety of family structures and backgrounds. Explores the impact of larger social systems on the family, changing concepts of family, and family processes throughout the life cycle. Emphasizes healthy interaction patterns and skills to strengthen family relationships.	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	292	Introduction to Child Life	X		Students will learn clinical and professional practices required to work in the child life field, including the history of the child life profession, ethics in child life, interventions, and healing environments in family-centered care. Prerequisites: B or better grade in ECYF 252 and B or better grade in ECYF 275.	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	360	Advanced Community Engagement and the Work of Social Justice	X		This course emphasizes the imperative of understanding the context from which children and families come as fundamental to human services work. With an emphasis on the cultural wealth of marginalized and minoritized communities, this course examines the historical, social, political, and cultural contexts which shape and maintain inequity. Students learn to evaluate culturally responsive and community sustaining approaches and engage in the generation of solutions for a more just society.	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	380	Parenting	X		Research-based parenting practices supporting the positive development of children in diverse families throughout the life cycle.	Teachers College	Early Chilhd, Youth, Family St	UG

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ECYF	392	Children, Youth, and Families in Clinical Settings	X		<p>Foundations of child life practice in a clinical setting inclusive of relationships among child, family, and the health care team. Provides in-depth study of therapeutic interventions and activity planning to support children through coping and comfort techniques during stressful situations related to health and medical procedures. Review of child life certification process toward becoming a Certified Child Life Specialist.</p> <p>Prerequisites: ECYF 100 or FCFC 100 or EDEL 100 or SPCE 201; B or better grade in ECYF 292 or ECYF 492 or FCFC 492 and B or better grade in ECYF 250.</p>	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	425	Grant Writing and Research Methods	X		<p>Focusing on the family and child disciplines, students will learn the research process, from developing research questions to analyzing data and interpreting results. Students will explore the grant writing process and methods for finding funding sources.</p> <p>Prerequisites: ECYF 100 or FCFC 100 or SPCE 201 or EDEL 100, and ECYF 250 or FCFC 250.</p>	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	475	Marriage	X		<p>Relationship dynamics and contemporary changes to the institution of marriage. Emphasizes the individual within marriage, dating, mate selection, relationship maintenance, communication, sexual adjustment, marriage dissolution, and marital growth. Open only to juniors and seniors or by permission of the department chairperson.</p>	Teachers College	Early Chilhd, Youth, Family St	UG
ECYF	484	Family Stressors and Crisis	X		<p>Focuses on stressors individuals and families experience across the life cycle and methods of coping. Teaches skills in professional ethics and boundaries when working with or educating families.</p> <p>Prerequisites: ECYF 100 or FCFC 100 or SPCE 201 or EDEL 100, and ECYF 250; ECYF 100 is waived for family engagement minors; ECYF 100 and ECYF 250 are waived for gerontology minors; junior or senior standing or permission of the department chairperson.</p>	Teachers College	Early Chilhd, Youth, Family St	UG

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ECYF	485	Family Policy	X		Explores policy at the local, state, and federal levels and its impact on family life. Students will assess the effectiveness of policies and programs from a family perspective, learn about the policy making process, and critically examine different roles professionals can play in influencing policy development. Prerequisite: ECYF 100 or FCFC 100 or SPCE 201 or EDEL 100, and ECYF 250; permission of the department chairperson. ECYF 100 is waived for family engagement minors.	Teachers College	Early Chilhd, Youth, Family St	UG
EDAC	629	Psychology of Adult Adjustment	X		The bases for certain adult behavior patterns and the problems involved in attempts to effect behavioral changes in adults. Open only to graduate students.	Teachers College	Educational Studies	GR
EDAC	631	Adult and Community Education	X		Overview of adult and community education including the concepts, processes, and trends in both public and private programs at the local, state, national, and international levels. Provides a basis for further study in the adult and community education graduate program.	Teachers College	Educational Studies	GR
EDAC	632	Organizing Adult and Community Education Programs	X		Administration and leadership of adult and community education programs and organizations. Theoretical approaches and practical skills are emphasized.	Teachers College	Educational Studies	GR
EDAC	634	The Adult as a Learner	X		An overview of adult learning. Theories, approaches to learning, and current research for the effective education of adults.	Teachers College	Educational Studies	GR
EDAC	635	Strategies for Teaching Adults	X		Focus on teaching strategies, techniques, and methods suitable for adult learners that are supported by research and tested in practice, including preparation of model teaching units, lesson plans, or activities; testing and evaluation procedures; and learner-assessment techniques.	Teachers College	Educational Studies	GR
EDAC	638	Program Planning in Community and Adult Education	X		Various approaches and models of program planning are examined with respect to their use in the practice of adult and community education.	Teachers College	Educational Studies	GR
EDAC	640	Foundations of Adult and Community Education		X	An exploration of the foundations of adult and community education with attention to key figures, issues, institutions, movements and programs, including consideration of the relationships between adult and community education's historical developments and prevailing intellectual, social, economic, and political conditions.	Teachers College	Educational Studies	GR
EDAC	646	Working with Volunteers in Community Agencies	X		An examination of the roles of volunteers within community agencies, including recent developments such as service learning and corporate volunteerism. A study of research and effective practice in working with volunteers.	Teachers College	Educational Studies	GR

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EDAC	648	The Community Educator	X		The structure, purpose, and processes of community education development with emphasis on the development of skills and competencies required of a community education coordinator.	Teachers College	Educational Studies	GR
EDAC	681	Managing Community Education	X		Skills and techniques essential to the management of community education projects. Emphasizing supervision and managing community education projects.	Teachers College	Educational Studies	GR
EDAC	698	Seminar in Adult and Community Education	X		Group or individual investigations of problems in adult and community education such as adult basic education, education about or for the aging, development of community leadership, and learning in the work place. Prerequisite: admission to advanced graduate degree programs or permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Teachers College	Educational Studies	GR
EDAC	700	Seminar in Adult and Community Education	X		A forum for graduate students of advanced standing to examine contemporary issues, challenges, trends, and ambiguities in the study and effective practice of adult and community education. Issues of social justice, diversity, and inclusion are also addressed. This course prepares the student for the comprehensive exams and engages them as collaborator in the field of adult and community education. Prerequisite: permission of the department chairperson or program director. Open only to doctoral students in adult and community education, major or cognate; other advanced graduate students by permission.	Teachers College	Educational Studies	GR
EDAC	780	Seminar in Managing Lifelong Education Programs	X		Examines issues of adult education globally, nationally, and locally. These include: social justice and inclusion practices, understanding systems of power, the cultures and missions of organizations, current leadership theories, and practices in the management and implementation of adult and community education. Prerequisite: permission of the department chairperson or program director. Open only to doctoral students in adult and community education, major or cognate; other advanced graduate students by permission.	Teachers College	Educational Studies	GR
EDAD	684	Educational Finance and Ethics	X		Introduction to school finance and school business administration at all levels. Applies contemporary theories of economics to educational funding, sources of revenue, resource allocation considerations, and study of current trends in fiscal structure and operations in education. Includes discussion of ethics in school finance.	Teachers College	Educational Leadership	GR

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EDAD	685	Fiscal Management of Educational Agencies	X		Basic concepts of fiscal management, procedures, and practices in educational institutions at all levels. Intensive study of budgeting and accounting as tools for planning and controlling educational operations. Prerequisite: EDAD 684 or equivalent or permission of the department chairperson.	Teachers College	Educational Leadership	GR
EDAD	688	School Buildings, Grounds, and Equipment		X	Roles and responsibilities of the educational administrator and procedures that contribute to effective planning of new or remodeled educational facilities. Gives special attention to such matters as school surveys, development of educational specifications, standards and guidelines for instructional and service areas, site requirements, financing, construction patterns, equipment needs, and community involvement.	Teachers College	Educational Leadership	GR
EDFO	620	Social, Historical, and Philosophical Foundations of Education	X		An academic study of the complex relationship between schools and society through the disciplines of sociology, history, and philosophy of education. The goal is to develop disciplines of normative, interpretive, and critical perspectives on education. Open only to postbaccalaureate licensing students.	Teachers College	Educational Studies	GR
EDHI	613	Administration and Finance in Higher Education	X		Study of the theories and practices in administration, governance, and financing of colleges and universities in the United States. Prerequisite: EDHI 610 or permission of the department chairperson.	Teachers College	Educational Leadership	GR
EDJH	385	Principles of Teaching in the Middle School	X		Combines the theory and practice of teaching at the middle school level. Includes the study of interdisciplinary planning and instructional strategies, cooperative learning, technology, classroom management, and current curricular issues. Intensive in-school assignments, observations, participation, and direct contact with adolescents required. Prerequisite: permission of the department chairperson. Parallel: EDSE 380.	Teachers College	Educational Studies	UG
EDMU	205	Introduction to Multicultural Education	X		Designed to expose students to a variety of literature and clinical experience that help students deconstruct privilege, institutional racism, exceptionalities, linguistic diversity, subtractive beliefs, LGBTQ issues, and other forms of isms and phobias relative to human diversity. Addresses the need for intercultural competence, culturally informed pedagogy, high expectations, and promotion of social justice.	Teachers College	Educational Studies	UG
EDMU	206	Advanced Study of Ethnic and Multicultural Group Behavior	X		Focuses on critical analyses of the concepts introduced in EDMU 205. By studying specific cultural groups in relation to schooling, develops an in-depth understanding of the impact culture has on the process of teaching and learning. Addresses the needs for intercultural competence, culturally sensitive instruction, and prejudice reduction. Prerequisite: EDMU 205.	Teachers College	Educational Studies	UG

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EDMU	660	Multicultural and Multiethnic Education in American Schools	X		Analyzes cultural and ethnic influences on the total operation of American schools. Emphasizes learning and classroom environment and planning, including cultural and ethnic considerations. Teacher attitudes, administrative concerns, student perceptions, and behaviors of all school-related personnel are studied in terms of the effect of prejudicial attitudes on the learning environment.	Teachers College	Educational Studies	GR
EDPS	211	Development of Creative Thinking	X		Examines theories and strategies for developing creative thinking among self and others. Analyzes factors that facilitate creativity, such as personality characteristics, process strategies, and environmental conditions.	Teachers College	Educational Psychology	UG
EDPS	390	Learning & Assessment in Secondary Education	X		<p>Study of the psychological principles underlying the processes of teaching, learning, and assessment. Primary focus is provided on best practices in assessment, research-based strategies to promote learning and motivation in schools, and using data to support decision making in classroom contexts. Content will cover the theoretical bases of these concepts as well as promoting the applied implementation of best practices in educational settings, intended for secondary or all grade licensing programs.</p> <p>Prerequisite: EDPS 250 or EDPS 251 or permission of the department chairperson.</p> <p>Not open to students who have credit in EDPS 391 or EDPS 393.</p>	Teachers College	Educational Psychology	UG
EDPS	391	Learning and Assessment in Early Childhood	X		<p>An overview of the implementation and interpretation of assessments of learning and development in early childhood. Includes application of assessment results to plan early childhood curriculum that is responsive to and supportive of children's development.</p> <p>Prerequisite: EDPS 254 or EDPS 260 or ECFY 275 or permission of the instructor.</p>	Teachers College	Educational Psychology	UG

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EDPS	393	Learning & Assessment in Elementary Education	X		<p>Study of the psychological principles underlying the processes of teaching, learning, and assessment. Primary focus is provided on best practices in assessment, research-based strategies to promote learning and motivation in schools, and using data to support decision making in classroom contexts. Content will cover the theoretical bases of these concepts as well as promoting the applied implementation of best practices in early childhood and elementary school settings.</p> <p>Prerequisite: EDPS 260 or permission of the department chairperson.</p> <p>Not open to students who have credit in EDPS 390 or EDPS 391.</p>	Teachers College	Educational Psychology	UG
EDPS	600	Advanced Educational Psychology	X		<p>Advanced survey of the psychological principles underlying the processes of teaching and learning. Theories, research, and applications are explored with an emphasis on the implications for effective learning approaches, instruction, assessment, and policy.</p>	Teachers College	Educational Psychology	GR
EDPS	602	Institutional Research		X	<p>Provides an introduction to the field of institutional research. Exposes students to the theory and practice within the field, which is a unique combination of research methodology, data analysis, education policy, and applied research.</p>	Teachers College	Educational Psychology	GR
EDPS	651	Personality Assessment of Children and Adolescents	X		<p>Theory, administration, scoring, and interpretations of personality assessment instruments such as projective techniques, rating scales, and personality inventories, typically used for children and adolescents.</p> <p>Prerequisite: EDPS 653 or permission of the program director.</p>	Teachers College	Educational Psychology	GR
EDPS	653	Individual Cognitive Assessment	X		<p>Administration, interpretation, and analysis of individual measures of cognitive functioning. Prerequisite: permission of the department chairperson. Open only to students in school psychology.</p>	Teachers College	Educational Psychology	GR
EDTE	370	Technology Policy and Ethics	X		<p>Examines the social, ethical, legal, and human issues surrounding the use of technology in PK-12 schools and the policies that affect how technology is realized in schools and their surrounding communities. Addresses the leadership roles necessary for developing enabling conditions for technology integration.</p>	Teachers College	Educational Studies	UG
EDTE	670	Technology Policy and Pedagogy	X		<p>Examines the social, ethical, legal, and human issues surrounding the use of technology in PK-12 schools and the policies that affect how technology is realized in schools and their surrounding communities. Addresses the leadership roles necessary for developing enabling conditions for technology integration.</p>	Teachers College	Educational Studies	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
ENG	205	World Literature	X		The study of selected works of world literature other than British and American literature. Prerequisite or parallel: ENG 206 or 230, or permission of the department chairperson. Not open to honors students who have completed or will complete HONRS 201, 202, or 203.	Sciences and Humanities	English	UG
ENG	214	Introduction to Literature and Gender	X		Study of gender and sexuality as represented and constructed in works of literature. Texts may include literary, critical, and theoretical writings and works in other media. Course material and expectations are appropriate for students who are not majors or minors in English. Credit does not apply to English majors.	Sciences and Humanities	English	UG
ENG	215	Introduction to African-American Literature	X		Introduction to the African-American literary tradition in the United States. Course material and expectations are appropriate for students who are not majors or minors in English. Credit does not apply to English majors.	Sciences and Humanities	English	UG
ENG	216	Introduction to American Ethnic Literature	X		Introduction to the literary, oral, cultural, and historical traditions of one or more specific American ethnic groups. Course material and expectations are appropriate for students who are not majors or minors in English. Credit does not apply to English majors.	Sciences and Humanities	English	UG
ENG	217	Introduction to Queer Literature and Queer Theory	X		Introduction to queer literature and queer readings of texts as well as exploration and discussion of queer theory. Course material and expectations are appropriate for students who are not majors or minors in English. Credit does not apply to English majors.	Sciences and Humanities	English	UG
ENG	219	Introduction to Linguistic Science	X		The scientific study of language opens the door to a deeper understanding of the language we use every day, revealing patterns in different subareas of linguistics. Learn terms, concepts, and methodologies to identify patterns not just in a single language, but similarities and differences across many languages. Not open to students with credit in ENG 334.	Sciences and Humanities	English	UG
ENG	220	Language and Society	X		Addresses major social issues related to language use in the United States. Students learn through case studies and other projects to identify hidden assumptions, frame questions requiring research, and do the research necessary to make informed decisions about linguistic issues in our society.	Sciences and Humanities	English	UG
ENG	269	Career Discovery	X		Provides a personalized framework for English majors to help them discover how they might apply their major after college. Focuses on student self-assessment including personal attributes such as values, interests, personality, skills, and purpose. Students begin the process of exploring possible career pathways. No prerequisite, but students are encouraged to take the course as a parallel with the gateway course in their major concentration.	Sciences and Humanities	English	UG

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ENG	303	Global Rhetorics	X		Explores the various ways that rhetoric has functioned and been theorized in a variety of cultural traditions, including Chinese, African, Native American, and Greco-Roman. Focus on historical and cross-cultural contexts, and modern relevance. Prerequisite: ENG 104 or ENG 114.	Sciences and Humanities	English	UG
ENG	305	Black Children's and Young Adult Literature	X		Examines historic and contemporary African Diaspora Literature suitable for students in Pre-K through young adult.	Sciences and Humanities	English	UG
ENG	322	Language and Cross-Cultural Communication	X		Considers sociolinguistic issues in cross-cultural communication in oral, written and digital communication. Special attention is paid to linguistic politeness, common pitfalls in the performance of speech acts such as agreeing, disagreeing, suggesting, complimenting, and conversational organization, turn-taking, and patterns of negotiation. Prerequisite: ENG 220.	Sciences and Humanities	English	UG
ENG	328	Language and Gender	X		Offers a detailed examination of the relationship between language and gender. Students explore how individuals use linguistic resources to construct gender identities through analysis of language, including pronunciation, conversational norms, and narrative styles.	Sciences and Humanities	English	UG
ENG	334	English Linguistics for Educators	X		An introduction for ESL teachers to fundamentals of linguistics, with special attention to the structure and use of English and how its features compare to those of other languages frequently spoken by ESL learners. This includes sound systems, vocabulary, grammar, differences between oral and written language use, and the intersection of language and culture. Not open to students with credit in ENG 219.	Sciences and Humanities	English	UG
ENG	336	Writing for Community Action	X		Writing strategic verbal and visual documents that spark community, institutional, organizational, and political transformations with emphasis on ethical communication and advocacy. Prerequisite: ENG 231 or permission of department chairperson.	Sciences and Humanities	English	UG
ENG	490	Literature and Gender	X		Study of gender and sexuality as understood, constructed, and contested in one or more cultural/historical settings. Texts may include literary, critical, and theoretical writings and works in other media.	Sciences and Humanities	English	UG
ENG	491	Literature of African-American Traditions	X		Survey of the African-American literary tradition in the United States.	Sciences and Humanities	English	UG

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ENG	492	Native American Literature	X		Study of materials from the oral and written literatures of Native Americans.	Sciences and Humanities	English	UG
ENG	493	American Ethnic Literature	X		Study of the literary, oral, cultural, and historical traditions of a specific ethnic group and/or study of a range of responses by writers of color to a specific issue or theme.	Sciences and Humanities	English	UG
ENG	494	Queer Literature/Queer Theory	X		Study of queer literature and queer readings of texts as well as exploration and discussion of prevalent queer theories.	Sciences and Humanities	English	UG
ENG	495	Disability Studies	X		Study of literary and/or cultural representations of disability and writings by disabled individuals as well as exploration of theories related to the study of disability from a humanities perspective.	Sciences and Humanities	English	UG
ENG	498	Studies in Global Literature	X		A study of major works from post-colonial countries and cultures, such as Nigeria, South Africa, India, and Jamaica, and the intellectual and literary movements associated with them. Students are also introduced to concepts associated with post-colonial literature and criticism such as colonialism, imperialism, anticolonialism and neocolonialism.	Sciences and Humanities	English	UG
ENG	616	Introduction to Theories of Language Learning	X		Psychological, sociocultural, and linguistic basis of language learning; research and theoretical perspectives related to second language teaching. Prerequisite: permission of the department chairperson.	Sciences and Humanities	English	GR
ENG	617	Methods for Teaching English Language Learners	X		Study and practice of a variety of methods in teaching English language learners in second or foreign language settings. Prerequisite: permission of the department chairperson.	Sciences and Humanities	English	GR
ENG	620	English Linguistics for Educators	X		An introduction for ESL teachers to fundamentals of linguistics, with special attention to the structure and use of English and how its features compare to those of other languages frequently spoken by ESL learners. This includes sound systems, vocabulary, grammar, differences between oral and written language use, and the intersection of language and culture. Not open to students who have credit in ENG 334. Prerequisite: permission of the department chairperson.	Sciences and Humanities	English	GR
ENG	627	Sociolinguistics	X		Examines the correlation of linguistic variation with geographic areas and social variables such as sex, age, socioeconomic status, and ethnicity. Prerequisite: permission of the department chairperson.	Sciences and Humanities	English	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
ENG	628	Language and Culture	X		Examines the ways members of different cultures organize and exploit their linguistic resources. Topics include registers and forms of address, verbal art, conversational strategies, code-switching, language maintenance and death, and cross-cultural miscommunication. Prerequisite: permission of the department chairperson.	Sciences and Humanities	English	GR
ENG	633	Practicum in Teaching English to Speakers of Other Languages	X		Practical experience related to the teaching of English as a second or foreign language. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned.	Sciences and Humanities	English	GR
ENG	646	Studies in American Ethnic Literature	X		Study of literary works that express the experiences and cultures of American population groups whose voices have not been adequately represented in the literary and social mainstream. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	English	GR
ENG	647	African American Literature	X		Examines African American literature focusing on the role of vernacular speech and music; the social status of African Americans and their relations with other racial groups; the connections between race, class, gender, and sexuality; and relevant literary criticism and theory. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	English	GR
ENG	655	Gender Studies	X		Exploration of issues in gender theory, which may include studies of power, language, literature, culture, identity, sexuality, representation, and pedagogy, as well as interdisciplinary connections to other political and philosophical theories of race, class, gender, ethnicity, and nationality. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	English	GR
ENG	657	Post-Colonial Studies	X		Focused study of post-colonial literature and literary theory. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	English	GR
ENG	688	Writing Program Administration	X		A historical, theoretical, and practical overview of issues involved in writing program administration. Focus on directing first-year writing programs, but with some attention to writing centers, WAC/WID, and other types of programs. Includes readings and discussion of management, curriculum, faculty development, assessment, research, and institutional navigation. Prerequisite: permission of the department chairperson.	Sciences and Humanities	English	GR

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ENG	689	Writing Center Research and Administration	X		Exploration of historical, theoretical, and empirical writing center scholarship. Intended to prepare graduate students for future administration positions. Prerequisite: approval by the department chairperson.	Sciences and Humanities	English	GR
ENT	241	The Entrepreneurial Experience	X		This is an introductory course on entrepreneurship, the generation of innovative ideas, and the role of entrepreneurship within society. Topics include entrepreneurial decision-making, developing ideas into ventures, and defining business models. The course includes guest lectures from a diverse set of entrepreneurs.	Miller College of Business	Management	UG
ENT	244	Social Entrepreneurship		X	Exploration of ventures started for social food, whether not-for-profit or for-profit. Examines implications of starting ventures for the greater good of society.	Miller College of Business	Management	UG
EXSC	190	Introduction to Kinesiology		X	An introduction to Kinesiology as a field of study. Topics will include a historical perspective, measurement methods, career options, related professional organizations and publications, physiological and psychological research, technology and research tools, professional development and standards, and other current information for wellness and fitness professionals.	College of Health	Kinesiology	UG
EXSC	479	Exercise Science Internship		X	Full-time on- or off-campus practical experience in an exercise science-related program, e.g., cardiac rehabilitation, physical therapy, wellness/health promotion, sports medicine, corporate fitness, YMCA, etc. Enhances professional preparation by offering opportunities to apply fundamental concepts and principles in an actual work setting. Full time commitment required by student to complete requirement. Exercise Science majors may repeat only once. Prerequisite: Exercise Science majors must have completed all other required courses, 100 observation hours, Career Ready program, and satisfied all other retention standards required of the major (e.g. minimum grade point averages, etc.). Open only to Exercise Science majors.	College of Health	Kinesiology	UG
EXSC	600	Internship in Exercise Science		X	An in-depth practical experience in the application of knowledge and skills related to one of the specialization areas within exercise science. Prerequisite: permission of the program coordinator. A total of 12 credits may be earned.	College of Health	Kinesiology	GR
EXSC	633	Seminar in Exercise Science		X	In-depth study on advanced or selected topics in the field of kinesiology. Topics chosen based on students' needs and interests in the field of kinesiology. Prerequisite: permission of the program coordinator. A total of 18 credits may be earned.	College of Health	Kinesiology	GR

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EXSC	639	Seminar in Cardiac and Pulmonary Rehabilitation		X	Study of the characteristics of contemporary cardiac and pulmonary rehabilitation programs. Includes an overview of routine diagnostic assessments, exercise prescription principles, and program administration issues associated with these rehabilitation programs. Also includes a review of current research related to cardiac and pulmonary rehabilitation. Prerequisite: EXSC 622, 623, 638; permission of the program coordinator.	College of Health	Kinesiology	GR
EXSC	640	Exercise in Prevention and Rehabilitation of Chronic Diseases		X	Covers the role of regular aerobic exercise and/or resistance training in the prevention and rehabilitation of various chronic diseases through discussions of disease etiology and review of available exercise training literature. Prerequisite: permission of the program coordinator.	College of Health	Kinesiology	GR
EXSC	698	Internship in Exercise Program		X	Provides practical experiences in physical fitness and clinical assessments and in exercise programming in both health/fitness and clinical environments. Prerequisite: permission of the program coordinator. A total of 12 credits may be earned.	College of Health	Kinesiology	GR
FASH	100	Introduction to The Fashion Industry	X		A survey of the business of fashion through design, manufacture, distribution, and promotion. Introduces fashion theory, its products and consumer	Miller College of Business	Applied Business Studies	UG
FASH	102	Construction Techniques for the Apparel Industry	X		Basic knowledge of apparel construction and principles of design as applied to clothing.	Miller College of Business	Applied Business Studies	UG
FASH	130	Textiles and Product Analysis for Apparel		X	Analysis of the quality of fashion products including components of textiles (fibers, yarns, and fabrics), performance, quality, and consumer satisfaction.	Miller College of Business	Applied Business Studies	UG
FASH	200	Professional Styling	X		A study of the skills, roles, and career opportunities in professional styling. Explores various techniques of styling fashion products, image consultancy, and fashion styling. Prerequisite: FASH 100	Miller College of Business	Applied Business Studies	UG
FASH	245	Visual Merchandising	X		Study of visual merchandising practice in the retail industry in the optimizing of the presentation of products and services to highlight features and benefits to attract, engage, and motivate consumer interaction Prerequisite: FASH 100	Miller College of Business	Applied Business Studies	UG

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FASH	284	Fashion Brand Management and Retailing	X		The role of merchandising is analyzed relative to market research, planning and control, pricing strategies, supply chain management, brand development and sourcing. The course will emphasize the operation of retail stores, types of merchandise, and interrelationship of markets. Students will envision, create, and manage a fashion brand. Prerequisite ISOM 112; FASH 100	Miller College of Business	Applied Business Studies	UG
FASH	365	Fashion Forecasting	X		Provides an overview of the use of fashion forecasting to interpret trends for the global fashion industry. Prerequisite: FASH 100	Miller College of Business	Applied Business Studies	UG
FASH	369	Fashion Internship	X		Provides the opportunity for the student to work in established internship setting in the fashion industry to gain professional experience. Prerequisite: FASH 100, MKG 300	Miller College of Business	Applied Business Studies	UG
FASH	381	Fashion Special Event Promotion	X		Study of promotional strategies used in the fashion industry. Understanding the tools used to create a successful fashion campaigns and special events. The coordination of a successful event is taught through a series of hands-on exercises and field application. Prerequisite: FASH 100	Miller College of Business	Applied Business Studies	UG
FASH	480	Studio Design	X		Students will simulate the fashion industry practice from the design to the presentation of an original fashion line. Design stages includes market research, design conceptualization, and prototype development. Prerequisite FASH 102; and FASH 295; and FASH 300 OR FASH 303	Miller College of Business	Applied Business Studies	UG
FASH	497	Portfolio Development for Fashion	X		Provides the opportunity to compile a portfolio of design work and/or projects to be used for a job interview. Prerequisite: FASH 415; FASH 480 for apparel design students.	Miller College of Business	Applied Business Studies	UG
GEOG	101	Earth, Sea, and Sky: A Geographic View	X		Selected aspects of the physical environment and their relationship to human occupancy of the earth.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	120	Economic Geographies of Globalization	X		A systematic approach to economic issues emphasizing local, regional, national, and global economic developments in the geographic setting.	Sciences and Humanities	Geography and Meteorology	UG

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GEOG	121	Geography of the Cultural Environment	X		Utilizes qualitative methods to investigate relationships between human culture and the environment. Spatial processes that bring about cultural diversity and change are stressed as well as the role of human activity in producing cultural landscapes. The formation of cultural landscapes over time and the impacts of globalization are emphasized.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	150	Global Geography	X		A basic survey course emphasizing geographic facts and interdependencies between the developed and developing world. Particular emphasis is given to physical and social environmental interdependencies.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	261	Introduction to Sustainable Tourism		X	Examines the history, components, and spatial structure of tourism from an ethical standpoint in regard to environmental, socio-cultural and economic impacts. Introduces principles of sustainable tourism and their application to various types of tourism and geographical contexts.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	262	Tourism Regions	X		Examines locational patterns of various forms of tourism and the main geographic characteristics of these destinations. Analyzes spatial and temporal models and flows and their economic, social, cultural, and environmental impacts through selected detailed case studies.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	270	Geography of International Conflict	X		Focuses on contemporary armed conflicts, including culture-based conflicts and competition among nations for economic and mineral resources; treats territorial disputes from a cultural and geographic perspective. Case studies vary to illustrate types of contemporary conflicts.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	321	Urban Geography	X		Distribution, classification, structure, and function of urban centers. Special attention is given to the geographic conditions affecting urban development and growth.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	323	Tourism and Geography of Food	X		Surveys the origin, spatial diffusion, and cultural ecology of food crops and agriculture in the context of tourism and travel. Examines the globalization of regional foods as a cultural commodity and agricultural landscapes as tourist attractions.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	350	Geography of the United States and Canada	X		Comprehensive survey of geographic regions, settlement, land use, natural resources, and potentialities of the United States and Canada.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	357	Geography of Europe	X		Examines the changing physiographic, climatic, economic, and political environments of Europe. While addressing the entire European cultural area, from the Atlantic Ocean in the west, to the Ural and Caucasus mountains in the east, primary emphasis is given to countries of Western, Northern, Southern and Central Europe.	Sciences and Humanities	Geography and Meteorology	UG

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GEOG	360	Tours and Meetings Management	X		Introduces principles, strategies, and techniques applicable in planning and operational stages of tours, meetings, and other organized forms of travel and tourism, both leisure and business oriented. Faculty supervised practical field experience in tour planning and conducting. Lab fees also apply. Prerequisite: GEOG 261 or GEOG 262.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	423	Population Geography	X		A systematic and regional analysis of areal patterns of population distribution, composition, migration, and growth, as well as their causes and the effects they have on the cultural landscape.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	434	Maps, Environment, and Society	X		Focuses on innovative mapping approaches beyond conventional map-making. During the semester, students will discuss current topics such as participatory mapping, critical cartography and possible interfaces between cartography, social sciences, humanities, the broader society and the environment and explore online mapping techniques, technologies, and tools.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	436	Introduction to Remote Sensing	X		Lectures will review the physics and various systems of remote sensing, while lab exercises will cover some applications of remote sensing on the environment. Topics include the electromagnetic radiation, aerial photograph interpretation, multispectral-, hyperspectral-, thermal remote sensing, RADAR/LIDAR, and remote sensing applications on vegetation, water, and urban landscape.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	460	Travel and Tourism Consulting	X		Familiarization with and assessment of various travel products and their distribution channels. Development of skills in problem solving and task functions such as: information gathering, promotion, reservation, ticketing, and experience with current industry-standard tourism software. Industry approved entry-level travel agent certification optional. Prerequisite: GEOG 261 or GEOG 262.	Sciences and Humanities	Geography and Meteorology	UG
GEOG	491	Sustainable Tourism Development		X	Considers how to develop destinations and activities that integrate sustainable economic growth and community involvement with minimal adverse impacts on the environment. Topics addressed include tourism resource assessments, destination development models, market analysis, and practicalities associated with tourism plan creation and implementation. Emphasis is placed on the interaction of public and private developers across the international, national, destination, and site scales. Prerequisite: GEOG 261 or permission of the instructor.	Sciences and Humanities	Geography and Meteorology	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOG	536	Introduction to Remote Sensing	X		Lectures will review the physics and various systems of remote sensing, while lab exercises will cover some applications of remote sensing on the environment. Topics include the electromagnetic radiation, aerial photograph interpretation, multispectral-, hyperspectral-, thermal remote sensing, RADAR/LIDAR, and remote sensing applications on vegetation, water, and urban landscape. Not open to students who have credit in GEOG 436.	Sciences and Humanities	Geography and Meteorology	GR
GEOG	625	GIS for Environmental Science	X		Examination of techniques in Geographic Information Systems (GIS), with emphasis on data and analyses relevant to the environmental sciences. Course delivery includes both guided instruction and applied GIS projects focused on data collection, preparation, analysis, and reporting. Prerequisite: permission of the instructor.	Sciences and Humanities	Geography and Meteorology	GR
GEOLOG	101	Planet Earth's Geological Environment	X		Introductory study of the materials, structure, and surface features of the earth; the processes responsible for their development; geologic hazards; and the application of geologic knowledge to mankind's environmental and resource problems.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOLOG	105	Laboratory in Physical Geology	X		Practical study of minerals, rock, planimetric and topographic maps, fold and fault structures, geological maps, climate change, earthquakes, flooding, sustainability; local field trip. An introductory high school or college earth science course. Prerequisite: an introductory high school or college earth science course; permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOLOG	110	Age of the Dinosaurs	X		Discussion of the dinosaurs, their classification, their relationship to the environment, their geographic distribution, and their geologic record. Special emphasis on new theories about dinosaur ecology, behavior, and extinction.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOLOG	201	Earth, Life, and Time	X		Introduction to the geologic history of the Earth's dynamic systems in relation to the development of the modern environment. Regularly scheduled laboratory. Prerequisite: any UCC Tier 1 course in the Natural Sciences Domain or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOLOG	206	Oceans and Nations	X		Worldwide human interactions with the oceans and international conflicts of interest related to the marine environment. Introduction to oceanography, marine law, resource conflicts, pollution, cooperation for research and hazard response, and other topics. Credit does not count toward the geology minor.	Sciences and Humanities	Environ Geol Nat Res	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOL	207	Environmental Geology - Geological/Geochemical Cycles	X		Explores the geochemical cycling in the interior of the Earth and its effects on surface processes, the cycling of components crucial for humans and life in general such as water, carbon, and nitrogen, and the geologic cycling of hazardous chemicals such as heavy metals. Regularly scheduled laboratory. Prerequisite: CHEM 111; GEOL 101; or high school equivalents, or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	220	Earth Materials	X		Principles of crystallography and mineralogy and the relationships of minerals to the composition and types of rocks of the earth's crust. Laboratory work concerned with crystallographic operations and the identification of minerals by physical and chemical properties. Regularly scheduled laboratory. Prerequisite: GEOL 101; or permission of the department chairperson. Prerequisite or parallel: CHEM 111 or permission of the department chairperson. Not open to students who have credit in GEOL 435.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	240	Geomorphology	X		Study of landforms and the earth surface processes that shape them. Effects of geology and climate on landscapes sculpted by weathering, mass movements, rivers, groundwater, volcanism, tectonics, wind, and waves throughout the world. Regularly scheduled laboratory; overnight field trip. Prerequisite: GEOL 101 or high school equivalent or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	308	Sedimentary Geology	X		An introduction to the study of sedimentary rocks and processes. Sedimentary rock description, depositional environments, and the application of stratigraphic methods. Regularly scheduled laboratory and a field trip. Prerequisite: GEOL 201 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	310	Igneous and Metamorphic Petrology	X		Origin and description of igneous and metamorphic rocks. Incorporates information on recent advances in our understanding of these rocks. Provides an overview of the field of petrology and a solid foundation for more advanced studies. Prerequisite: GEOL 220 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	315	Structural Geology	X		Designed to give middle- and upper-level students an introduction to rock-deformation theory, structural geology, and tectonics. Looks at microscopic to macroscopic deformation of rock in the Earth's lithosphere and basic field mapping techniques. Associated field trips. Prerequisite: GEOL 101, GEOL 105, and GEOL 201 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOL	350	Physical Hydrology	X		Fundamental physical and chemical principles governing the occurrence and circulation of water at and near the Earth's surface. A quantitative approach is taken to mathematically describe hydrological phenomena, such as open channel flow and surface water hydraulics. Prerequisite: GEOL 240.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	409	Micropaleontology	X		Morphology, classification, preparation techniques, and evolution of paleontologically significant microfossil groups and their biostratigraphic and paleoecologic significance. Emphasizes foraminifera, conodonts, and ostracodes. Regularly scheduled laboratory. Includes an immersion experience. Prerequisite: GEOL 308 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	411	Advanced Igneous and Metamorphic Petrology	X		Processes responsible for, and the rocks and minerals associated with, the formation of both igneous and metamorphic rocks. Microscopic to macroscopic features associated with these processes. Regularly scheduled laboratory. Prerequisite: GEOL 220, 310 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	412	Sedimentary Petrology	X		A petrographic approach to the classification and genetic interpretation of sedimentary rocks. Terrigenous sandstones and carbonate rocks will be emphasized with lesser stress on mud rocks and non-carbonate chemical rocks. Prerequisite: GEOL 201, 220, 310 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	413	Experimental Petrology	X		Students are introduced with several experimental apparatuses that are designed to simulate the behavior of Earth's materials at different P-T conditions. Student will learn various heterogeneous phase equilibria that are of interest to geologists. Students are expected to learn how to construct various phase diagrams and to apply appropriate melting systems to model the formation of solid Earth and the other terrestrial bodies. Prerequisite: GEOL 310.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	416	Geology of Hazards and the Environment	X		Applied geology for hazard and environmental problems. Properties and mechanics of rocks and soil; geologic materials in construction; erosion, mass wasting, subsidence; flooding, shoreline, seismic, volcanic, and other natural hazards. Dams, tunnels, mines, shoreline structures, and other special construction problems; groundwater engineering problems. Prerequisite: an introductory course such as GEOL 101, 207, 240; NREM 211 or EMHS 352; MATH 108 or MATH 110 or high school equivalent, or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	420	Oceanography	X		Description of geological and physical characteristics of the oceans, marine processes, and related topics. Prerequisite: CHEM 111; GEOL 201, 207; or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOL	440	Karst Environments and Carbonate Geology	X		A study of a portion of the global carbon cycle that includes an intensive survey of karst aquifers and landscapes as well as the geology of the carbonate rocks in which the karst forms. Planned topics will include carbonate depositional environments, carbonate petrology and diagenesis, speleogenetic theories, karst hydrology and geochemistry, karst geomorphology, and environmental/engineering challenges in karst. Prerequisite: GEOL 207, 240. Not open to students who have credit in GEOL 540.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	461	Hydrogeology	X		An intensive survey of the physical properties of groundwater flow and the classic literature of aquifer studies. Prerequisite: GEOL 350 or permission of the department chairperson. Not open to students who have credit in GEOL 560.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	462	Environmental Geology in the Field and Laboratory	X		Provides development of research projects and instruction in field and laboratory techniques used in the collection and analysis of field samples. The techniques are applied to the study of local environment research projects and may include instruction on well probes and standard "wet" chemical techniques. Prerequisite: GEOL 207, 461 or 560.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	470	Groundwater Geochemistry	X		Introduces the processes controlling the composition of natural waters; streams, lakes, oceans, and near-surface groundwaters. Focuses on the effects of human activities, biological systems, and inorganic geochemistry processes on water chemistry. Prerequisite: CHEM 111, 112; GEOL 101; or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	471	Volcanology and Volcanic Hazards	X		Designed to give middle- and upper-level students a working knowledge of the causes and effects of the various types of volcanism ranging from quiescent Hawaiian-style volcanoes to the explosive SW Pacific volcanoes. In addition, looks at volcanic prediction, monitoring, and hazard response programs. Prerequisite: GEOL 201 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
GEOL	475	Glacial Geology	X		In-depth study of the physical nature of glaciers, their deposits, and the erosional and depositional landforms they create. Introduction to glacial history of the north-central United States. Term paper required. Prerequisite: GEOL 240; PHYC 110 or 120; or permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOL	508	Sedimentary Geology	X		An introduction to the study of sedimentary rocks and processes. Sedimentary rock description, depositional environments, and the application of stratigraphic methods. Regularly scheduled laboratory and a field trip. Prerequisite: GEOL 201 or permission of the department chairperson. Not open to students who have credit in GEOL 308.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	509	Micropaleontology	X		Morphology, classification, preparation techniques, and evolution of paleontologically significant microfossil groups and their biostratigraphic and paleoecologic significance. Emphasizes foraminifera, conodonts, and ostracodes. Regularly scheduled laboratory. Includes an immersion experience. Prerequisite: GEOL 508 or permission of the department chairperson. Not open to students who have credit in GEOL 409.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	510	Igneous and Metamorphic Petrology	X		Origin and description of igneous and metamorphic rocks. Incorporates information on recent advances in the understanding of these rocks. Provides an overview of the field of petrology and a solid foundation for more advanced studies. Prerequisite: GEOL 220 or permission of the department chairperson. Not open to students who have credit in GEOL 310.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	512	Sedimentary Petrology	X		A petrographic approach to the classification and genetic interpretation of sedimentary rocks. Terrigenous sandstones and carbonate rocks will be emphasized with lesser stress on mud rocks and non-carbonate chemical rocks. Prerequisite: GEOL 201, 220, 310, or permission of the department chairperson. Not open to students who have credit in GEOL 412.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	516	Geology of Hazards and the Environment	X		Applied geology for hazard and environmental problems. Properties and mechanics of rocks and soil; geologic materials in construction; erosion, mass wasting, subsidence, flooding, shoreline, seismic, volcanic, and other natural hazards. Dams, tunnels, mines, shoreline structures, and other special construction problems; groundwater engineering problems. Prerequisite: an introductory course such as GEOL 101, 207, 240; NREM 211 or EMHS 352; MATH 108 or high school equivalent, or permission of the department chairperson. Not open to students who have credit in GEOL 416.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	525	Geophysics	X		An intensive survey of the study of properties of earth materials. The focus is on the first principles that govern geophysical properties, and the techniques used to measure those properties. Prerequisite: MATH 161 or 165, and PHYC 110, or permission of the department chairperson. Not open to students who have credit in GEOL 425.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOL	540	Karst Environments and Carbonate Geology	X		A study of a portion of the global carbon cycle that includes an intensive survey of karst aquifers and landscapes as well as the geology of the carbonate rocks in which the karst forms. Planned topics will include carbonate depositional environments, carbonate petrology and diagenesis, speleogenetic theories, karst hydrology and geochemistry, karst geomorphology, and environmental/engineering challenges in karst. Prerequisite: GEOL 207, 240. Not open to students who have credit in GEOL 440.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	550	Physical Hydrology	X		Fundamental physical and chemical principles governing the occurrence and circulation of water at and near the Earth's surface. A quantitative approach is taken to mathematically describe hydrological phenomena, such as open channel flow and surface water hydraulics. Prerequisite: GEOL 240 or permission of the instructor. Not open to students who have credit in GEOL 350.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	560	Hydrogeology	X		An intensive survey of the physical properties of groundwater flow and the classic literature of aquifer studies. Prerequisite: GEOL 350 or 550, and MATH 161 or 165, and PHYC 110, or permission of the department chairperson. Not open to students who have credit in GEOL 461.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	570	Groundwater Geochemistry	X		Introduces the processes controlling the composition of natural waters: streams, lakes, oceans, and near-surface ground waters. Focuses on the effects of human activities, biological systems, and inorganic geochemistry processes on water chemistry. Prerequisite: GEOL 101; CHEM 111, 112; or permission of the department chairperson. Not open to students who have credit in GEOL 470.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	571	Volcanology and Volcanic Hazards	X		Designed to give middle- and upper-level students a working knowledge of the causes and effects of the various types of volcanism ranging from quiescent Hawaiian-style volcanoes to the explosive Southwest Pacific volcanoes. In addition, looks at volcanic prediction, monitoring, and hazard response programs. Prerequisite: GEOL 201 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	575	Glacial Geology	X		In-depth study of the physical nature of glaciers, their deposits, and the erosional and depositional landforms they create. Introduction to the glacial history of the north central United States. Term paper required. Prerequisite: GEOL 240; PHYC 110 or 120; or permission of the department chairperson. Not open to students who have credit in GEOL 475.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
GEOL	600	Seminar in Geology	X		Review and discussion of the literature related to a selected topic of current interest in geological research. Laboratory work and field trips may be included when necessary. A total of 9 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	601	Seminar in Environmental Geology	X		Review and discussion of the literature related to a selected topic of current interest in environmental geology. Laboratory work and field trips may be included when necessary. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	605	Seminar in Stratigraphy	X		Discussion of current topics in stratigraphy. Subjects may include global correlation, the record of sea level change, and global events in earth history.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	610	Seminar in Sedimentary Petrology	X		Advanced coverage of sedimentary rocks, their constituents, their environments of deposition, and the diagenetic processes that alter them after deposition. Proficiency in recognition of sedimentary constituents, in naming sedimentary rock types, and in interpretation of depositional, diagenetic, and provenance processes is expected. Prerequisite: GEOL 412 or 512, or permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	626	Seminar in Tectonics	X		Origin and nature of tectonic processes affecting the crust and lithosphere. Plate dynamics and the tectonic evolution of orogens from a structural, petrologic, and geochronologic perspective. Prerequisite: GEOL 315, 411, or 510, or permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	650	Seminar in Advanced Hydrology	X		Covers advanced concepts in hydrology. Focal topics will include moisture transport in atmospheric circulation, water budget calculations, surface-water and groundwater interaction, fluid dynamics of open channel flow, and chemical/isotopic tracers for reservoir fractionation. Prerequisite: GEOL 350 or 550 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	660	Seminar in Advanced Hydrogeology	X		Seminar in advanced and contemporary topics in groundwater geology such as pump and slug test analyses, analytic or numerical flow and transport computer modeling, wellhead protection policy, current groundwater resource and water quality research, and groundwater remediation. Prerequisite: GEOL 461 or 560; permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	GR
GEOL	670	Seminar in Environmental Geochemistry	X		Seminar in advanced and contemporary topics in aqueous geochemistry such as geochemical cycling with focus on the role of sediments, soils, freshwater streams and lakes, and oceans as reservoirs for chemical compounds, including natural and manmade contaminants. Prerequisite: GEOL 470 or 570, or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
HIST	204	American Environmental History	X		Designed to give students knowledge of resource use in the United States. Government policies and private enterprise practices of exploitation and conservation from settlement to the present are treated in historical perspective. Emphasizes the way resource use has shaped society. Not open to students who have credit in NREM 204.	Sciences and Humanities	History	UG
HIST	318	History of the American West	X		Survey of the history of the U.S. West, a region of Native North America that has been the object of Spanish, French, English, and American expansionism, and finally a distinct region with a unique relationship to the U.S. federal government. Explores the U.S. West as both a shifting geographic region, and as a frontier process involving migration, political and social expansion, and cultural change.	Sciences and Humanities	History	UG
HIST	425	Topics in the History of the American West	X		Examines in depth a particular aspect of the history of the American West, such as the region's Native peoples, frontier colonial experiences, exploration and expansion, environmental history, global connections, comparative frontiers, religious history, legacy of violence, the development of the mythic West, and public memory and commemoration in the West. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	History	UG
HIST	498	Topics in Global History	X		Examination of the global features, dimensions, and impacts of a significant historical phenomenon, development, trend, subject, or issue. The exact content will be announced before each offering. A total of 6 hours of credit may be earned.	Sciences and Humanities	History	UG
HIST	525	Topics in the History of the American West	X		Examines in depth a particular aspect of the history of the American West, such as the region's Native peoples, frontier colonial experiences, exploration and expansion, environmental history, global connections, comparative frontiers, religious history, legacy of violence, the development of the mythic West, and public memory and commemoration in the West. A total of 6 credits may be earned, but no more than 3 in any one semester or term. Open only to graduate students.	Sciences and Humanities	History	GR
HONR	189	Inquiries in Global Studies	X		Interdisciplinary exploration of the commonalities and diversities in global culture, economy, history, politics, and society. Focus is upon Asia, Africa, Central and South America, and Indigenous Peoples. Open only to Honors College students.	Honors College	Honors College	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
HONR	199	Inquiries in Contemporary American Civilization	X		Interdisciplinary exploration of one or more critical issues that confront the modern United States, such as race, poverty, education, or family. Open only to Honors College students.	Honors College	Honors College	UG
HONR	296	Inquiries in the Physical Sciences	X		Study of introductory principles within the physical sciences, emphasizing the relationships of the sciences to human concerns and society. Study of social and ethical consequences of scientific discoveries and their applications to critical issues confronting contemporary society. Open only to Honors College students.	Honors College	Honors College	UG
HONR	297	Inquiries in the Earth Sciences	X		Study of introductory principles within the earth sciences, emphasizing the relationships of the sciences to human concerns and society. Study of social and ethical consequences of scientific discoveries and their applications to critical issues confronting contemporary society. Open only to Honors College students.	Honors College	Honors College	UG
HONR	298	Inquiries in the Life Sciences	X		Study of introductory principles within the life sciences, emphasizing the relationships of the sciences to human concerns and society. Study of social and ethical consequences of scientific discoveries and their applications to critical issues confronting contemporary society. Open only to Honors College students.	Honors College	Honors College	UG
HONR	299X	Inquiries in Special Topics	X		Exploration of special topics relevant to Honors learning. Titles will be announced before each semester. May be repeated for different topics. Prerequisite: permission of the dean of the Honors College. A total of 99 credits may be earned, but no more than 6 in any one semester or term. Open only to Honors College students.	Honors College	Honors College	UG
HONR	310	Honors Foreign Study	X		Study in a foreign country appropriate to Honors learning. Course work undertaken at institutions of higher learning in other countries is granted Ball State University Honors College credit. Prerequisite: permission of the dean of the Honors College. A total of 99 credits may be earned, but no more than 18 in any one semester or term. Open only to Honors College students accepted in a Ball State exchange or study abroad program.	Honors College	Honors College	UG
HONR	390	Honors Colloquium	X		Exploration of selected issues that explore a single topic in depth or connect subjects or disciplines. Emphasis is on discussion, individual projects, and ways of combining information from several sources. May be repeated for different topics. Prerequisite: permission of the dean of the Honors College. A total of 99 credits may be earned, but no more than 6 in any one semester or term. Open only to Honors College students who have completed at least two of HONR 189, 199, 201, 202, 203, 296, 297, 298.	Honors College	Honors College	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
HONR	499	Senior Honors Project	X		An inquiry or creative project whose culmination includes an honors paper, prepared in accordance with accepted standards of documentation and presentation and supervised by a faculty member. Prerequisite: permission of the dean of the Honors College. Open only to Honors College seniors and those students completing the requirements for departmental honors.	Honors College	Honors College	UG
HOSP	101	Basic Cooking Class	X		This course is designed to teach fundamental, basic cooking skills through a series of lectures, demonstrations, and hands-on-labs that explore a wide variety of culinary concepts and techniques.	Miller College of Business	Applied Business Studies	UG
HOSP	105	Hospitality and Foodservice Industry	X		An overview of the hospitality and foodservice profession. An in-depth analysis of the industry including diversity and challenges, the academic preparation required, identification of the role of the hospitality and foodservice manager, and the multiple career options.	Miller College of Business	Applied Business Studies	UG
HOSP	110	Principles of Food Preparation and Food Science	X		Introduces the principles of food preparation and food science. Correct techniques and methods of food preparation are stressed.	Miller College of Business	Applied Business Studies	UG
HOSP	147	Foodservice Sanitation	X		Identify foodborne illness, how to prevent it and how to train employees in food sanitation procedures and best practices in the workplace as it relates to safety and sanitation, identify and mitigate allergens and risks and regulations associated with alcohol. Students will become eligible to take the National Restaurant Association Manager's Sanitation certification examination (Servsafe Manager), the National Restaurant Association Alcohol certification examination (Servsafe) and the National Restaurant Association Allergens certification examination (Servsafe).	Miller College of Business	Applied Business Studies	UG
HOSP	210	Customer Service	X		Concentrates on building quality service skills and knowledge needed to foster excellent customer relations.	Miller College of Business	Applied Business Studies	UG
HOSP	220	Meal Design and Presentation	X		Fundamentals of planning, preparing and serving financially responsible. Nutritious and aesthetically appealing meals in a commercial kitchen environment. Attention is given to foods and learning the fundamentals of using commercial food preparation equipment along with the use of computer applications. Prerequisite: HOSP 110	Miller College of Business	Applied Business Studies	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
HOSP	222	Commercial Food Operations	X		Fundamentals of planning, preparing and serving financially responsible, appetizing and aesthetically appealing meals in a commercial kitchen environment. Attention is given to food and learning the fundamentals of using commercial food preparation equipment. Prerequisites: HOSP 110; HOSP 147	Miller College of Business	Applied Business Studies	UG
HOSP	225	Hospitality Technology and Innovation	X		Survey of the core concepts of technology in the context of hospitality. Emphasis on exploring, evaluating, and implementing systems specific to the hospitality industry.	Miller College of Business	Applied Business Studies	UG
HOSP	250	Lodging Management	X		Examines the departmental structure of hotel operations along with the duties, responsibilities, and challenges of hospitality management within the hotel industry.	Miller College of Business	Applied Business Studies	UG
HOSP	262	Facilities Planning, Layout and Design	X		Fundamentals of planning, layout, purchasing, and use of equipment and space for all aspects of the hospitality industry including food service operations.	Miller College of Business	Applied Business Studies	UG
HOSP	287	Introduction to Event Management	X		An introduction to the management of special events such as conventions, professional and social meetings. Emphasis on fiscal responsibilities, logistics and space allocation.	Miller College of Business	Applied Business Studies	UG
HOSP	299X	Special Topics in Hospitality Management	X		This is a course for students interested in pursuing an in-depth investigation into a particular hospitality topic with emphasis on exploring areas of study not covered by existing courses.	Miller College of Business	Applied Business Studies	UG
HOSP	300	Hospitality Cost Control	X		Controlling costs from a management perspective in the hospitality and foodservice industry.	Miller College of Business	Applied Business Studies	UG
HOSP	350	Revenue Management	X		This course provides an introduction to basic principles and concepts of revenue management, including inventory/capacity control, market assessment and selection, demand forecasting, pricing decisions executions. Prerequisite: HOSP 250	Miller College of Business	Applied Business Studies	UG
HOSP	369	Internship in Hospitality Management	X		Provides the opportunity for the student to work in established internship setting to gain professional experience in one's specific area study. Prerequisites: HOSP 147; HOSP 222; HOSP 250; HOSP 287; and MCOB 200; documented experience of at least 400 hours in a food, event/meeting, or hotel establishment in a customer-service position. Hours must have been accumulated within prior 4 years; documented attendance of internship meeting prior to registering for the course is required, and permission of internship director or department chairperson. Open only to hospitality majors.	Miller College of Business	Applied Business Studies	UG

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HOSP	387	Event Mechanics and Promotions	X		This course provides an overview of special events, festivals, and community celebrations, and the types of organizational systems needed to produce and present them. It explores the management skills necessary to plan, produce, and promote events. Critical in this is designing events that are strategically sound, appropriate to the needs of the organizer, and cost-effective. Prerequisite: HOSP 287	Miller College of Business	Applied Business Studies	UG
HOSP	395	Food and Culture	X		Explores the relationships between agricultural practices, diet patterns, food procurement and distribution, and religious dietary doctrines from a national and global perspective. Emphasis on how culture, national and international policies, and belief systems shape food consumption patterns.	Miller College of Business	Applied Business Studies	UG
HOSP	400	Restaurant Management	X		Quantity food production, commercial kitchen equipment use, leadership and financial management concepts are demonstrated through the student-run Allegre restaurant. Focus on mastering skills related to quantity food production, distribution, storage, service, and financial responsibility. Leadership and management techniques, challenges, and experiences that are unique to the food service industry are explored. Prerequisites: HOSP 147; HOSP 220 or HOSP 222	Miller College of Business	Applied Business Studies	UG
HOSP	401	Field Studies in Hospitality Management	X		Provides the opportunity to visit and observe the application of knowledge in the field. Sites for field studies may be either domestic or international, and come from any area of family and consumer sciences. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned.	Miller College of Business	Applied Business Studies	UG
HOSP	425	Beverage Management	X		Introduces and hospitality operations/venues focused on beverage service with accompanied with food or stand alone. Discussion topics to include all beverages to outline their ROI, accompanied menu selections, service, inventory management, wholesale providers and safety with guest relations. Requirements: junior standing and minimum 21 yrs of age.	Miller College of Business	Applied Business Studies	UG
HOSP	450	Strategic Operation in Lodging Industry	X		Examines current practices and business strategies implemented by lodging companies along with contemporary issues in the lodging industry. Prerequisite: HOSP 250.	Miller College of Business	Applied Business Studies	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
HOSP	475	Catering for Profit	X		Fundamentals of planning, organizing, preparing, and serving profitable and unique catering functions. Emphasizes menu development, customer service, marketing, and food production. Prerequisite: HOSP 147 and 220 or 222.	Miller College of Business	Applied Business Studies	UG
HOSP	487	Event Production in the Modern Hospitality Industry	X		This course gives the student a holistic, integrated, and immersive educational experience with events in a real environment. Students will plan, execute, and evaluate a real-life event in order to develop organizational, planning, and evaluative skills useful to those working in the events industry and hospitality. Practical and hands-on experience will be bolstered with discussions, seminars, and lectures designed to ensure that students have the requisite background to work in an effective manner with other professionals, clients, and the general public in the hospitality industry. Prerequisites: HOSP 105, HOSP 147, HOSP 287, HOSP 387	Miller College of Business	Applied Business Studies	UG
HOSP	495	Independent Study in Hospitality	X		Investigation and exploration of a topic in hospitality management that is currently not offered as a class. Requires extensive reading and development of research skills. Includes work with faculty who have expertise in the area of study. Prerequisite: Permission of the department chairperson.	Miller College of Business	Applied Business Studies	UG
HOSP	496	Seminar in Hospitality Management	X		Seminar topics will be identified, focusing on current issues in the hospitality industry. Using the seminar format, the course will include research, discussion, and dissemination of information gathered on a given topic. Prerequisite: permission of the department chairperson. May be repeated up to total of 9 credits, but no more than 6 in any one semester or term.	Miller College of Business	Applied Business Studies	UG
HOSP	498	Immersive Learning Experience in Hospitality Management	X		Students, working as a member of an interdisciplinary team, engage in a directed immersive learning experience. Melds content, skills, societal need, and student interests into an intense, real-world transformative experience that results in a tangible product. Prerequisite: permission of department chairperson.	Miller College of Business	Applied Business Studies	UG
HOSP	499	Capstone in Hospitality Innovation and Leadership	X		Seminar topics will be identified, focusing on current issues in the hospitality industry. Using the seminar format, the course will include research, discussion, and dissemination of information gathered on a given topic. Prerequisites: HOSP 400, HOSP 450, HOSP 487	Miller College of Business	Applied Business Studies	UG

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HSC	160	Fundamentals of Human Health	X		Emphasizes life-style behaviors contributing to health promotion and disease prevention. General areas affecting health status are identified and suggestions made as to how health-related behaviors, self-care, and individual decisions contribute to wellness and influence dimensions of health. No regularly scheduled laboratory.	College of Health	Nutrition and Health Science	UG
HSC	180	Principles of Public Health	X		Introduces public health concepts by examining the purpose, history, organization, functions, tools, activities, philosophy, and achievements of public health practice at the local, state, national, and international levels. Focuses on populations, settings, and special issues of public health. Includes an out of class service-learning component.	College of Health	Nutrition and Health Science	UG
HSC	220	Population, Race, and Culture in Health Education and Promotion	X		Explores the aspects of race and culture that influence health, public health policy, the management and practice of healthcare, and the promotion of health equity. Among the aspects of U.S. culture that will be discussed are: race, ethnicity, gender, social class, and nationality. These cultural factors immediately impact patient-provider interaction, health and illness behavior, health care provider decision-making and ultimately impact health status. This knowledge will enhance students' ability to serve as educated citizen advocates for improving health of disadvantaged groups.	College of Health	Nutrition and Health Science	UG
HSC	310	Healthcare Systems	X		Provides students with an overview of the U.S. healthcare system, its components and the policy and advocacy challenges created by its organization. Describes the structure and function of the various private and public health care entities within the U.S. Strengths and weaknesses related to cost, quality and access are also analyzed. Basic economic theories that drive financing will also be considered.	College of Health	Nutrition and Health Science	UG
HSC	330	Intervention Strategies for Health Promotion and Disease Prevention	X		Students will identify, develop, and practice skills and methods to promote health and prevent disease across diverse populations. Focus will be on familiarizing students with strategies, resources, and techniques that work to advance behavior change within health education, health communication, health policy and advocacy, environmental change, and community mobilization interventions. Prerequisite: None	College of Health	Nutrition and Health Science	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
HSC	482	Environmental Health		X	Examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. The relationship of people to their environment, how it affects their physical well-being, and what they can do to influence the quality of the environment and to enhance the protection of their health are also emphasized. Basic concepts of the modes of transmission of environmental stressors from source or reservoir to host and methods of reducing their impact on human population are accentuated.	College of Health	Nutrition and Health Science	UG
HSC	682	Environmental Health	X		Physical environment and its relationship to disease causation. Review of environmental health problems and their solutions. Areas of study include air and water pollution, food sanitation, disposal of human excreta and waste, radiation and occupational health problems, and risk. Not open to students who have credit in HSC 482.	College of Health	Nutrition and Health Science	GR
HSC	689	Public Health Entomology	X		A survey of diseases caused or transmitted by insects and other arthropods. Emphasizes the recognition of medically important arthropods and their biology and control. A weekly three-hour laboratory provides an opportunity to collect and study live and preserved arthropod specimens. Not open to students who have credit in HSC 389.	College of Health	Nutrition and Health Science	GR
ICS	664	Cloud Technologies	X		Examines cloud infrastructure and technologies. Explores design/configuration choices, reviews cloud architectural principals, describes basic security and compliance, account management principals, explores the core characteristics for deploying and operating in cloud environments and cost effective decision-making. This course has associated labs.	Commun., Info. and Media	Info, Comm Sciences	GR
IDES	100	Introduction to Interior Design	X		Introduces the interior design profession to students. Discusses the curriculum, career options, licensing, accreditation, design process, associations and knowledge and skills required from an entry level interior designer. Designed for students already in the program and students who may want to explore this field and is presented as a comprehensive overview that may be helpful in future interior design studies or in the selection of a major.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	114	Sustainable Interiors		X	Focused on the examination and application of the appropriate sustainable/green principles in interior design. Emphasis will be on Leadership in Energy & Environmental Design for Contract Interiors Green Building Rating Systems (LEED-CI), a national certification program by the U.S. Green Building Council.	Architecture and Planning	Construction Mgt & Int Design	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
IDES	115	Interior Materials and Applications	X		Study of interior materials, finishes, furniture, and architectural components. Covers floor, wall, and ceiling finishes, furniture, cabinetry, and case goods. Selection criteria, green design, cost, quality, application, sources, and specifications will be discussed and analyzed. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	222	Interior Design Studio 1	X		Introduction to design process and interior planning for small scale interior spaces with more emphasis on residential design. Prerequisite: IDES 110, 111, 115. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	224	Interior Design Studio 2	X		Design and space planning for small to medium scale interior spaces integrating aesthetic, social, technical, and graphic communication. Introduction to research and programming processes. Prerequisite: IDES 120, 222. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	261	Universal Design	X		Addresses the established principles of universal design by examining the benefits for people with differing abilities. The history of universal design is addressed, which is a design method providing accessibility to all people (diverse cultures, special populations, disabled, aging, and able bodied). Prerequisite: IDES 120.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	300	Interior Design Professional Practice	X		Legal, financial, management, marketing, and administrative issues facing interior designers, firm principals, and managers. Covers business plan, potential legal problems, contracts, agreements, pricing products and setting fees, marketing and promotion of design services. Prerequisite: junior standing or permission of the department chairperson. Open only to interior design majors.	Architecture and Planning	Construction Mgt & Int Design	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
IDES	310	Construction Management for Interior Design	X		Provides a necessary baseline knowledge vocabulary and understanding of the role and activities of the interior designers as it relates to architects, material suppliers, inspectors and constructors in the commercial building process. Discusses the skills generally required for sound project management typically associated with the interior design profession. The elements of a project and the role and responsibilities of the Project Manager are studied. Students are also acquainted with site supervision, financial, labor, safety, equipment, contracting issues, typical construction delivery systems, the planning and contracting, estimating methodology, contract forms and provisions related to liability for interior design and construction companies. International Building Code and the importance of contract language negotiations are discussed. Prerequisite: IDES 324. Open only to Interior Design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	314	Color and Light in Interior Design	X		Exploration of the principles that govern the use of color and light in interior design. Application of these principles in residential and commercial settings. Prerequisite: IDES 224.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	320	Furniture Design	X		This studio emphasizes the study of furniture design as art and science. Students will be introduced to historical styles and theoretical concepts, aesthetics and ergonomics, technology and design processes of furniture and furnishings, including the examination of differing forms, cultural references, anthropometrics, materials, and traditional to hybrid fabrication processes. Prerequisite: IDES 221, 224, or ARCH 201. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	324	Interior Design Studio 3	X		Development and application of planning processes for medium scale commercial and residential projects with focus on accessibility and universal design. Prerequisite: IDES 221, 224. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	330	Construction Documents for Interior Designers	X		Designed to practice the fundamentals of construction documentation for interior designers. Students use a previously designed space to develop a comprehensive set of construction drawings and schedules which would enable an Owner or Contractor to provide a Rough Order of Magnitude cost for the project. Prerequisite: IDES 324 and 362. Open only to Interior Design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
IDES	334	Interior Design Studio 4	X		Development and application of planning techniques of larger scale commercial projects with focus on hospitality and retail design. Prerequisite: IDES 324. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	362	Interior Construction, Building Systems, and Regulations	X		Covers information required for interior construction and building systems, environmental systems/controls, and regulations. Detailing of interior components, custom cabinetry, construction of partitions, ceiling, and flooring will be discussed. Further, principles of lighting, acoustic, thermal comfort, indoor air quality, structural systems, distribution systems (power, HVAC, mechanical, data, and plumbing) and regulations (codes, standards, and guidelines) will be covered. Prerequisite: IDES 221 and 224.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	400	NCIDQ Preparation	X		Prepares students for the National Council for the Interior Design Qualification exam by simulating the actual testing experience. Covers all the exercises that will be encountered on the actual examination. Prerequisite: IDES 424 or permission of the department chairperson. Open only to interior design majors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	420	Interior Design Programming	X		Methods for gathering, organizing, and assessing data needed to design the interior of any type of building. Design concepts, goals, needs, facts, client values, staff and employee projections, current and future space requirements, adjacencies, furnishing, furniture and equipment requirements, project cost, schedule, and building codes will be discussed. Prerequisite: IDES 324.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	424	Interior Design Studio 5	X		Development and application of planning techniques, construction documentation techniques of larger scale commercial projects with focus on health care and office systems environments. Prerequisite: IDES 334.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	484	Interior Design Studio 6	X		Comprehensive studio integrating research and analysis of existing or proposed structures, contextual development of interior solutions, building constraints, and specialized products and materials specifications. A self-directed studio with research completed in fall semester in the programming course. Prerequisite: IDES 420, 424. Open only to interior design majors and minors.	Architecture and Planning	Construction Mgt & Int Design	UG
IDES	604	Professional Design Practices	X		Focuses on the trends and issues embracing the professional, ethical and transnational interior design practices. Students will be introduced to successful models and relevant strategies in design leadership, management and entrepreneurship.	Architecture and Planning	Construction Mgt & Int Design	GR

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IDES	612	Legal, Ethical, and Safety Issues in the Healthcare Industry	X		This course explains how healthcare design can empower people and communities to thrive in the face of emerging policies, business models, and operations. This course discusses a multidisciplinary approach to generate effective and transformative change to support people and communities. Specifically, it addresses topics of legal, ethical, and safety concerns in the healthcare industry through the LEAN model, a management model that serves to eliminate waste in systems. Open only to Graduate students.	Architecture and Planning	Construction Mgt & Int Design	GR
IDES	613	Design Analysis	X		Discusses methods of gathering, organizing, and assessing data needed to design the interior spaces. Developing design concepts, goals, and objectives, gathering information about users of the space, their interests, needs, aspirations, behaviors, interactions, and tasks, and the necessary environmental requirements to support these expectations in the planning and the design process are discussed. Students break up and analyze a whole into its fundamental elements or component parts. Illustrates a structure for the programming process that produces a pragmatic foundation of design information.	Architecture and Planning	Construction Mgt & Int Design	GR
IDES	614	Healthy Environments for Patient Populations	X		This course will cover successful programming approaches from Evidence Based Design perspective to meet user needs, with an in-depth exploration of research and programs applied to specific populations and needs. Topics covered in class will vary based on the instructor's expertise, invited speakers, and student interests. Topics may include design considerations for special populations, for example: children, elderly adults, ethnic minorities, and women's health. Topics may also include design considerations for special presenting problems, for example: chronic and acute pain management, sleep problems, cancer, Alzheimer's disease, Autism Spectrum Disorders, and depression. Each session of this class is divided into a lecture and a workshop. Prerequisite: IDES 612.	Architecture and Planning	Construction Mgt & Int Design	GR
IDES	619	Environmental Psychology in Interior Design	X		Explores how a space and building affect an occupant's behavior, well-being, and health. Discusses psychosocial responses to the built environment, analyzes the interaction between environments and human behavior and well-being, while exploring how individual differences related to age, gender, and cultural background impact that interaction. Provides proactive initiatives designed to minimize stress and maximize user satisfaction, helping designers to create more comfortable spaces that will both satisfy the needs of the intended occupants and expand the scope of design.	Architecture and Planning	Construction Mgt & Int Design	GR

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IDES	620	Inclusive Design	X		Focuses on design solutions for all users of the interior space with emphasis on the functional, cultural, and ergonomic needs. Discusses alternative approaches to design process, materials, and user-centric products. Concepts and principles of universal and global design and governmental regulations are covered.	Architecture and Planning	Construction Mgt & Int Design	GR
INAD	369	Internship in Fashion Apparel Design	X		Provides the opportunity for the student to work in an established internship setting to gain professional experience in one's specific area of study. Prerequisite: FASH 303; MKG 300; permission of the department chairperson. A total of 6 credits may be earned.	Miller College of Business	Applied Business Studies	UG
ISOM	251	Supply Chain and Logistics in Society	X		Investigate supply chain and logistics management within business operations with an emphasis on planning, customer relationship management, ethics, sustainability, quality, technology and globalization. Incorporates the use of interdisciplinary and practical modelling to develop a framework to synthesize information and apply effective decision-making strategies found in for-profit and not-for-profit social organizations and evaluate globalization as it impacts society. Not open to business majors.	Miller College of Business	Info Systems/Operatns Mangmt	UG
ISOM	351	Operations Management	X		Discusses decision making in the operations functions for the creation of goods and services and its relationship with other business functions. Topics include: operations strategy, emerging process technologies, planning and scheduling, inventory management, just-in-time systems, and quality management. Prerequisite or parallel: ECON 221 or MATH 181 or MATH 221 or MATH 320 or MATH 321 or equivalent.	Miller College of Business	Info Systems/Operatns Mangmt	UG
ISOM	655	Quality Management	X		A study of systems for managing, controlling, and assuring the quality of goods and services using statistical techniques to solve problems and achieve continuous improvement in planning and operations. Special emphasis on total quality management, Six-Sigma, ISO 9000, and Malcolm Baldrige. Prerequisite: Full admission to a graduate program of the university. Open only to Miller College of Business students or by permission of the department chairperson.	Miller College of Business	Info Systems/Operatns Mangmt	GR
JOUR	413	Advanced Writing and Reporting	X		Advanced writing, reporting, and editing skills, including multiple-source interviewing, field observation, and use of databases. Emphasis on in-depth analysis and interpretation of a substantive area of coverage, including the use of community and public journalism theories and techniques. Prerequisite: JOUR 280 or JOUR 311 or JOUR 316 or JOUR 322 or NEWS 418.	Commun., Info. and Media	Journalism & Strategic Comm	UG

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KINE	409	Psychological/Social Issues in Sport		X	Covers practical applications of the social and psychological issues which influence individual and/or team performance; content based on two domains of the National Coaching Standards and the NASPE/NASSM Standards for Sport Management Programs. Prerequisite: permission of the coaching minor program coordinator. Open only to sport administration majors and accepted coaching minors.	College of Health	Kinesiology	UG
KINE	433	Coaching Internship		X	The student-coach will assist in coaching competitive sports. Supervised field-based experiences and in-depth daily and weekly reflection centering on self-awareness and the teaching-coaching process will occur during the course of the internship. The student-coach will become certified through a coaching association of their choice (with the approval of the Coaching Minor Program Coordinator) to prepare them for a future in the coaching profession. Prerequisite: KINE 231 with a C or better, current CPR/first aid/AED certified; permission of the Coaching Minor Program Coordinator. Open only to accepted coaching minor students.	College of Health	Kinesiology	UG
LA	100	Introduction to Landscape Architecture	X		An introduction to landscape architecture: lectures, site observations, and environmental experiences that focus on landscape architectural practice, representative projects, philosophy, and areas of specialization within the field.	Architecture and Planning	Landscape Architecture	UG
LA	201	Site Design	X		Application of basic design principles, programming, and analysis to small-scale site-specific landscape design problems. Visual and functional design principles as they relate to natural and cultural influences in landscape design. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	202	Park and Open Space Design	X		Design projects emphasizing park design, park and recreational master planning, and open-space design in rural, suburban, or urban settings. Prerequisite: LA 201. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	211	Landscape Architectural Engineering 1	X		Principles and practices of landscape engineering. Emphasizes the techniques and applications of land surveying, earthwork techniques including grading and estimation, and principles of site drainage. Prerequisite: LA 270. Open only to LA majors and minors.	Architecture and Planning	Landscape Architecture	UG
LA	214	Field Studies	X		On-site studies of landscape architectural projects and practices, natural areas, and historic sites and landscapes. Urban or rural field trips; may include visits to professional offices and public planning and design agencies. One three- to five-day field trip is required. Offered credit/no credit only. Parallel: LA 201.	Architecture and Planning	Landscape Architecture	UG

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LA	215	Field Studies 2	X		Group field studies of landscape architectural projects and practices, natural areas, and historic sites and landscapes. Urban and rural field trips may include visits to professional offices and public planning and design agencies. A minimum of one three- to five-day field trip is required. Offered credit/no-credit only. A total of 3 credits may be earned.	Architecture and Planning	Landscape Architecture	UG
LA	220	Landscape Architecture History - Ancient to Mid-19th Century	X		The history of landscape architecture from ancient times to approximately the mid-19th century; course emphasizes the human environment relationship and contemporary parallels in landscape design.	Architecture and Planning	Landscape Architecture	UG
LA	221	Landscape Architecture History - Mid-19th Century to Recent Past	X		The history of landscape architecture from the mid-19th century to the recent past. Emphasizes North American human-environment relationships, and their antecedents and cultural parallels in landscape design. Open only to LA majors and minors, or by permission of the Department Chair.	Architecture and Planning	Landscape Architecture	UG
LA	270	Environmental Systems	X		Qualitative investigations and analysis of the interrelationships between people and landscape systems. Studies include the assessment of ecological systems including land, water, climate, and biotic systems; influence of natural processes as they relate to the principles of landscape architectural design, planning and construction. Open only to LA majors and minors, or by permission of the Department Chair.	Architecture and Planning	Landscape Architecture	UG
LA	280	Computer Applications in Landscape Architecture	X		An introduction to the use of computers in landscape architecture. Emphasizes two- and three-dimensional computer-aided design and drawing, landscape data inventory and analysis, and landscape engineering. Parallel: LA 201. Open only to LA majors and minors.	Architecture and Planning	Landscape Architecture	UG
LA	301	Housing and Community Design	X		Design projects focusing on social, political, economic, cultural, and environmental issues as they relate to land-planning and site design for housing developments and residential communities. Prerequisite: LA 202 and 280. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	302	Planting Design	X		Design problems focusing on the functional, ecological, and aesthetic uses of plants in the landscape. Prerequisite: LA 211 and 341. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG

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LA	312	Landscape Architectural Engineering 2	X		Principles and practices of landscape architecture engineering and construction emphasizing landscape materials, structures, planting, and fabrication techniques. Includes design implementation techniques and construction documents. Open only to LA majors and minors.	Architecture and Planning	Landscape Architecture	UG
LA	313	Landscape Architectural Engineering 3	X		Principles and practices of landscape engineering and construction. Emphasizes vehicular, bicycle and pedestrian circulation; roadway, trail and parking lot design and engineering; practices of storm water management; and advanced grading. Prerequisite: LA 211. Open only to landscape architecture majors.	Architecture and Planning	Landscape Architecture	UG
LA	341	Landscape Plants 1	X		The study of woody and herbaceous plants, including plant identification and plant adaptation to urban and natural environmental conditions.	Architecture and Planning	Landscape Architecture	UG
LA	369	Landscape Architecture Internship	X		A minimum of ten weeks of supervised employment under the direction of a landscape architect or allied design professional. Departmental approval required in advance of qualified employment. Requires employer and self-evaluation reports. Requires two registrations: one zero-credit registration during semester of field experience and one one-credit registration the following fall semester. Offered credit/no credit only. Prerequisite: LA 302 and 312. A total of 1 credit may be earned. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	371	Theories and Practices of Sustainable Site Design		X	Interdisciplinary course examining theories, tools, and practices of sustainable site design and landscape planning. Connections are made between theories and green design movements; sustainable design projects are examined. Emphasis is placed on the interdisciplinary nature of sustainable design, collaboration, and site design processes for complex systems.	Architecture and Planning	Landscape Architecture	UG
LA	380	Computer Applications in Landscape Architecture 2	X		Intermediate-level course in the use of computers in landscape architecture. Emphasizes Web design, motion graphics, video, CD authorship, various presentation techniques, three-dimensional computer modeling and animation, and landscape engineering. Prerequisite: LA 280 or permission of the instructor.	Architecture and Planning	Landscape Architecture	UG
LA	401	Regional Landscape Design	X		The application of principles of landscape architectural design to large-scale landscape settings. Topics include land planning, visual quality management, and natural and cultural landscape resource management. Prerequisite: LA 301. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG

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LA	403	Urban Design	X		Design studio emphasizing the physical and socio-behavioral influences on the design of cities. Projects may focus on the design of new urban environments or the redesign and revitalization of existing urban centers. May include interdisciplinary studies. Prerequisite: LA 312 or 401 or permission of the instructor. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	404	Landscape Architecture Comprehensive Project	X		Analytical, conceptual, and design development processes applied to a comprehensive project in landscape architecture. Emphasizes guided independent design work based on individual initiative. Prerequisite: LA 451. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	406	Interdisciplinary Design Studio	X		An interdisciplinary studio focusing on topical studies in landscape architecture and related fields. Studio may be offered at on-campus or off-campus sites and may be part of an approved foreign study program. Prerequisite: permission of the instructor and department chairperson. A total of 5 credits may be earned. Open only to juniors and seniors.	Architecture and Planning	Landscape Architecture	UG
LA	410	Landscape Architecture Design/Build Projects	X		Experiential service learning design/build projects in landscape architecture. Faculty supervised, student implemented design and construction of site-scale spaces in support of community open space, recreation, or outdoor education needs. Prerequisite: LA 270 or permission of the department chairperson.	Architecture and Planning	Landscape Architecture	UG
LA	414	Landscape Architectural Engineering 4	X		Advanced methods of landscape architecture engineering and construction/implementation practices. Subjects include advanced applications for construction documentation, Building/Site/Land Information modeling (e.g., BIM); documented sustainable design criteria/guidelines/techniques (e.g., SITES); landscape construction management; and post construction evaluation. Course topics may include advanced sustainable site construction and landscape engineering applications for lighting, water, material selection, and landscape management. Prerequisite: LA 313 or permission of the instructor. Open only to LA majors.	Architecture and Planning	Landscape Architecture	UG
LA	420	Historic Landscape Preservation	X		Survey of the history, theory, and methodologies of historic landscape preservation. Includes topics in both vernacular and designed historic landscape preservation, primarily in North America. Prerequisite: LA 221 or permission of the instructor.	Architecture and Planning	Landscape Architecture	UG

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LA	430	Philosophy of Landscape Architecture	X		Readings, seminars, and lectures in the background and development of historic and contemporary philosophies of landscape architecture. Includes discussions of design and environmental issues, land use, and professional ethics. Prerequisite: LA 221 or permission of the instructor.	Architecture and Planning	Landscape Architecture	UG
LA	440	Therapeutic Landscapes	X		Principles and practices of planning and design of landscapes for healthy living. Topics may include the history and theory of therapeutic landscapes in support of health care services, active living issues in community design, and post-occupancy evaluations. Field trips may be required. Prerequisite: LA 202 or LA 270; or permission of the instructor.	Architecture and Planning	Landscape Architecture	UG
LA	442	Landscape Plants 2	X		The study of herbaceous landscape plants including plant identification and landscape cultural requirements. Emphasizes both outdoor and indoor plants.	Architecture and Planning	Landscape Architecture	UG
LA	451	Landscape Architecture Research	X		Methods, procedures, and case studies of landscape architectural research. Includes guided development of an individual research program and proposal leading to the landscape architecture comprehensive project (LA 404).	Architecture and Planning	Landscape Architecture	UG
LA	460	Professional Practice	X		Methods and practices of the profession of landscape architecture. Subjects include business and governmental organization, elements of contract law, business management, marketing, professional licensure, and ethics. Prerequisite: LA 302 or permission of the instructor.	Architecture and Planning	Landscape Architecture	UG
LA	464	Landscape Architectural Design Communications 2	X		Advanced methods of landscape architectural design communications using a variety of media. Prerequisite: CAP 162.	Architecture and Planning	Landscape Architecture	UG
LA	471	Sustainable Land Systems		X	Interdisciplinary course addressing sustainability in relation to diverse resource issues. It explores regions and sites as parts of land systems; and landscape planning and design integration with these systems to promote sustainability. It focuses on resource harvesting and regeneration; environmentally responsible materials and technologies, sustainable planning and design, and building-site integration.	Architecture and Planning	Landscape Architecture	UG
LA	480	Computer Applications in Landscape Architecture 3	X		Advanced-level use of computers in landscape architecture. Emphasis on three-dimensional computer modeling, animation and simulation, fabrication, video, and presentation techniques. Prerequisite: LA 380 or permission of the instructor.	Architecture and Planning	Landscape Architecture	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
LA	490	Independent Projects	X		An independent study in environmental topics. Prerequisite: approval of the program proposal by a faculty advisor, the professor responsible for study assessment, and the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Architecture and Planning	Landscape Architecture	UG
LA	498	Special Projects in Landscape Architecture	X		Special and timely landscape architectural projects undertaken by groups. A total of 9 credits may be earned, but no more than 6 in any one semester or term.	Architecture and Planning	Landscape Architecture	UG
LA	503	Introduction to Landscape Architecture	X		An introduction to landscape architecture, including lectures, readings, videos, online explorations, and discussions which focus on landscape architectural practice, representative projects, philosophies, and areas of specialization within the field.	Architecture and Planning	Landscape Architecture	GR
LA	514	Landscape Architectural Engineering 4	X		Advanced methods of landscape architecture engineering and construction/implementation practices. Subjects include advanced applications for construction documentation, Building/Site/Land Information modeling (e.g., BIM); documented sustainable design criteria/guidelines/techniques (e.g., SITES); landscape construction management; and post-construction/-occupancy evaluation. Course topics may include advanced sustainable site construction and landscape engineering applications for lighting, water, material selection, and landscape management. Prerequisite: LA 313 or permission of the instructor. Open only to landscape architecture majors.	Architecture and Planning	Landscape Architecture	GR
LA	520	Regional Landscape Architectural History	X		Major representative samplings of cultural developments and forces affecting evolution and transformation of the structure, pattern, image, and function of the midwestern landscape.	Architecture and Planning	Landscape Architecture	GR
LA	525	Historic Landscape Preservation	X		Theory, concepts, methods, and case studies in historic design and cultural landscape preservation.	Architecture and Planning	Landscape Architecture	GR
LA	530	Philosophy of Landscape Architecture	X		Seminars and independent study of the background and development of prevailing philosophies of landscape architecture. Not open to students who have credit in LA 430.	Architecture and Planning	Landscape Architecture	GR
LA	531	Rural Landscape	X		Lectures, seminars, and field study focusing on the rural landscape of Indiana and the Midwest. Issues of policy and management of resources, land-use practices, and various other conditions, both natural and human-made, as they relate to landscape architecture.	Architecture and Planning	Landscape Architecture	GR
LA	538	Park and Recreation Planning and Design	X		Interdisciplinary relationships in comprehensive and site-specific community recreation and park planning and design. A joint offering with the Indiana University Department of Recreation and Park Administration, presented over the Indiana Higher Education Telecommunications System.	Architecture and Planning	Landscape Architecture	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
LA	573	Environmental Systems and Structures	X		Qualitative investigations and analyses of and research in landscape systems. Studies include assessments of vegetation, climate, hydrology, soils, and surface geology as determinants of landscape architectural form; natural processes as they relate to the principles of landscape architectural construction.	Architecture and Planning	Landscape Architecture	GR
LA	590	Independent Projects	X		Independent study in environmental topics relevant to landscape architecture. Prerequisite: permission of the department chairperson. A total of 9 credits may be earned.	Architecture and Planning	Landscape Architecture	GR
LA	598	Special Projects in Landscape Architecture	X		Special and timely landscape architectural projects undertaken by groups of students. Prerequisite: permission of the department chairperson. A total of 9 credits may be earned.	Architecture and Planning	Landscape Architecture	GR
LA	601	Principles of Landscape Architectural Design	X		Design projects, exercises, lectures, and field studies to develop awareness of principles and concepts integrating natural and cultural elements in the landscape.	Architecture and Planning	Landscape Architecture	GR
LA	602	Site Design	X		Continued applications of basic design principles, programming, and site analysis reinforcing design processes and visual thinking in the design of sites. Emphasizes open space planning and park design. May include projects in natural, rural, and urban settings. Computer applications as appropriate. Prerequisite: LA 601 or departmental permission.	Architecture and Planning	Landscape Architecture	GR
LA	603	Community and Urban Space Design	X		Continued application of principles of landscape architecture to community- and neighborhood- scale projects of increasing complexity, including housing, commercial and urban land planning, and development issues. Additional issues addressed include human behavioral principles and planting design concepts as they relate to landscape architectural spaces. Computer graphic and CAD techniques as appropriate. Prerequisite: LA 602 or departmental permission.	Architecture and Planning	Landscape Architecture	GR
LA	604	Landscape Architecture Planning and Design	X		Staged projects progressing through regional land planning and site design scales. Includes landscape planning (manual or GIS), overlay assessments, historic and cultural landscape conservation planning and design, and site design applications. Prerequisite: LA 603, 650, or departmental permission.	Architecture and Planning	Landscape Architecture	GR
LA	605	Comprehensive Landscape Planning and Design	X		Faculty-directed landscape architectural planning and design problems and projects at an advanced level. Prerequisite: advisor selected for the thesis or creative project and proposal developed; LA 604, 650, 651, and 653; or departmental permission. Open only to MLA majors.	Architecture and Planning	Landscape Architecture	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
LA	622	Landscape Architectural History	X		Lecture and discussion on contributions of various cultures and eras to the landscape and their relationship to current issues in landscape design and theory.	Architecture and Planning	Landscape Architecture	GR
LA	645	Planting Design	X		Use of plants as landscape-design elements; related specifications and detailing. Introduction to cost estimating. Prerequisite: LA 341 or permission of the instructor.	Architecture and Planning	Landscape Architecture	GR
LA	650	Landscape Architecture Methods	X		Theories and methods related to landscape planning, preservation, and design. Open only to MLA majors.	Architecture and Planning	Landscape Architecture	GR
LA	651	Research Methods in Landscape Architecture	X		Focus is on critical issues and the framing of meaningful questions appropriate to the discipline and profession of landscape architecture. Emphasis on basic and/or applied research skills; and preparation of research study report or proposal. Open only to MLA majors.	Architecture and Planning	Landscape Architecture	GR
LA	652	Creative Project Design Seminar	X		Creative project programming and goal setting, with attention to theory, context and precedents, as applied to site analysis and conceptualization. Emphasizes guided independent work and individual initiative. Prerequisite: LA 651. Open only to MLA majors.	Architecture and Planning	Landscape Architecture	GR
LA	653	Readings in Landscape Architecture	X		Directed and selected readings and written reports to broaden perspective in landscape architecture. Preliminary investigation for the literature review of the thesis/creative project.	Architecture and Planning	Landscape Architecture	GR
LA	668	Landscape Architecture Internship	X		Minimum of one semester of supervised, unpaid employment under the direction of a landscape architect or allied-design professional. Departmental approval required in advance of qualified employment. Required employer and self-evaluation reports. Offered credit/no credit only. Not open to students who have credit in LA 669.	Architecture and Planning	Landscape Architecture	GR
LA	669	Landscape Architecture Internship	X		Minimum of one semester of supervised, paid employment under the direction of a landscape architect or allied-design professional. Departmental approval required before qualified employment. Requires employer and self-evaluation reports. Offered credit/no credit only. Not open to students who have credit in LA 668.	Architecture and Planning	Landscape Architecture	GR
LA	690	Independent Projects	X		Independent study in environmental topics relevant to landscape architecture. Prerequisite: permission of the department chairperson. A total of 9 credits may be earned, but no more than 3 in any one semester or term.	Architecture and Planning	Landscape Architecture	GR
LA	698	Special Projects in Landscape Architecture	X		Special and timely landscape architecture projects undertaken by students in groups. Prerequisite: permission of the department chairperson. A total of 9 credits may be earned, but no more than 3 in any one semester or term.	Architecture and Planning	Landscape Architecture	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
METC	230	Elementary Meteorology	X		Introductory presentation of basic meteorological processes with a focus on applying theory to the analysis and forecasting of local weather conditions.	Sciences and Humanities	Geography and Meteorology	UG
METC	331	Global Climatology	X		Introduction to the dynamics of the global climate system. Emphasizes the physical processes that force spatial variability in climate, and the feedback mechanisms associated with global teleconnections and climate change. Prerequisite: METC 230.	Sciences and Humanities	Geography and Meteorology	UG
METC	332	Climate Change and Modification		X	Study of the variability of climate over time and space, and factors involved. Focuses on past climates, modeling of future climates, and modification at local or microscale.	Sciences and Humanities	Geography and Meteorology	UG
MGT	364	Managing Equity, Diversity, and Inclusion in the Workplace	X		This course explores paradigms, rationale, and key elements for effectively creating and supporting diverse, multicultural, and socially just work places. Topics include legal context, theoretical perspectives, diversity management, inclusive leadership, and practical guidelines for building an inclusive workforce. Prerequisite or parallel: MGT 300 and MGT 361	Miller College of Business	Management	UG
MGT	409	Business for Good		X	This course explores social, environmental, and economic sustainability as strategic priorities for business. The course also explores the role of business in being a force for good by addressing complex global challenges through corporate social, environmental, and economic sustainability strategies. Open only to junior or senior Miller College of Business majors, or by permission of the department chairperson.	Miller College of Business	Management	UG
MGT	661	Strategic Human Resource Management	X		Emphasizes the basic functions of human resource management including planning, job analysis, selection, training, compensation, evaluation, safety, labor relations, and international issues. A combination of lecture, discussion, applied exercises, and case analysis will be employed. Prerequisite: full admission to a graduate program of the university. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.	Miller College of Business	Management	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
MKG	300	Principles of Marketing	X		Introduces marketing principles, functions, and contemporary practices essential for attaining organizational objectives. Topics include the marketing environment and technology, marketing research, consumer behavior, market segmentation, product management, professional selling, advertising, pricing, distribution channels, strategy implementation, and the role of marketing in society. Prerequisite: sophomore standing; minimum grade of C in ECON 116 or 201.	Miller College of Business	Marketing	UG
MKG	310	Consumer Behavior	X		Introduces the end-user consumption process. The impact of external factors such as culture and subculture, as well as psychological factors such as motivation and perception on consumer decision-making process are discussed. Examines how marketing managers use the information obtained from consumers' consumption process in planning effective marketing strategies. Prerequisite: MKG 300.	Miller College of Business	Marketing	UG
MKG	325	Professional Selling	X		Detailed introduction to and application of the principles of personal selling as applied to persons pursuing any vocation, as well as those aspiring to careers in marketing. Prerequisite: minimum grade of C in ECON 116 or 201. Prerequisite or parallel: MKG 300.	Miller College of Business	Marketing	UG
MKG	345	Procurement and Supply Management	X		Focuses on value creation through sourcing methods and activities. Principal topics include: purchasing process, supply development and fulfillment, negotiations, supplier evaluation/selection, supply base management, contract management, global sourcing, leveraging sustained competitive advantage, supply information systems/electronic commerce, source performance assessment, supplier quality enhancement, purchasing service, and ethics. Prerequisite: MKG 300.	Miller College of Business	Marketing	UG
MKG	375	Social Media Marketing	X		Study of social media as a means of marketing products and services to both consumers and organizational markets. Focuses on developing inbound marketing strategies for targeted social media campaigns, implementing platforms and tactics to meet those strategic goals, determining metrics and analytics for measuring success, and addressing current technology associated with the digital marketing environment within the organization's overall promotional strategy. Prerequisite: MKG 300 or MKG 370.	Miller College of Business	Marketing	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
MKG	400	Product Management	X		Examines the process of developing and managing products and brands as part of the organization's marketing strategy. Possible topics are designing new products, competitive positioning, creating and maintaining strong brand identities, and enhancing brand equity. Prerequisite: MKG 300.	Miller College of Business	Marketing	UG
MKG	420	Integrated Marketing Communications	X		Uses discussion, cases, and problems to give experience in making decisions on a firm's promotional mix, and creating and presenting integrated promotional campaigns. Focuses on promotional research; market analysis; campaign, creative and media strategy; budget allocation; creative campaign design; and media selection and scheduling. Prerequisite: MKG 300. Not open to students who have credit in MKG 320.	Miller College of Business	Marketing	UG
MKG	425	Seminar in Advanced Professional Selling	X		Introduces advanced topics in professional selling. Emphasis on relationship management and negotiation. Each student will work with a sales coach from industry. Multiple video-taped role playing exercises will be a major part of this class including a video-taped role play in the field. Prerequisite: MKG 300, 325; permission of the department chairperson.	Miller College of Business	Marketing	UG
MKG	431	Retail Strategy	X		Examines the diversity and dynamism of the retail industry and its strategies for success. Topics include retail market segmentation and positioning, strategies used to promote retail brand image, techniques used to select store sites, strategies to create market entry, and other competitive strategies. Prerequisite: MKG 300.	Miller College of Business	Marketing	UG
MKG	460	Strategic Supply Chain Management	X		Focuses on strategic perspectives and processes for managing activities to optimize the effectiveness and efficiency of the supply system. Topics include logistics network configuration, inventory management/risk-pooling, information value, supply chain design and integration, strategic alliances, outsourcing, international issues, customer value, and information technology. Prerequisite: MKG 300.	Miller College of Business	Marketing	UG
MKG	470	International Marketing	X		Examines the opportunities and problems associated with conducting business on a global scale. Focuses on the knowledge and skills needed for identifying, evaluating, and managing international marketing functions. Students are introduced to the economic, socio-cultural, financial, and legal-political factors affecting international marketing. Prerequisite: MKG 300.	Miller College of Business	Marketing	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
MKG	476	Advanced Digital Marketing Strategy	X		Building upon the skills learned in MKG 375, students will have the opportunity to execute full-funnel digital marketing plans to meet client objectives. A key component of the course will be developing cross-platform digital experiences and both selecting and using appropriate metrics of success. This course is project based and provides students with digital marketing applications experience to business-to-consumer, business-to-business, and/or multichannel marketing organizations. Prerequisite: MKG 375.	Miller College of Business	Marketing	UG
MKG	480	Marketing Strategy	X		Marketing strategy as a plan for allocating an organization's resources across the elements of the marketing mix to gain a distinctive competitive advantage and to achieve organizational objectives. Strategies of existing corporations may be profiled or a case approach may be used in this project-oriented course. Prerequisite: MKG 300, 310, 325, 350 and one additional MKG elective; senior standing or permission of the department chairperson.	Miller College of Business	Marketing	UG
MKG	635	Sales Management	X		The roles and functions of the business-to-business sales manager will be examined. Also explores practices in recruiting, selecting, training, compensating, leading, motivating, and controlling the sales force. Prerequisite: admission to a graduate program of the university; MKG 300; BUSA 603; or equivalent.	Miller College of Business	Marketing	GR
MUSE	291	Elementary General Music Methods	X		Focuses on philosophy, approaches/methods, and materials needed to teach a general music course in elementary school settings. Emphasizes teaching skill development, musical development of children, performance-based assessment, technology, classroom management, continued portfolio development, and field experiences. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade or W. Prerequisite: C or better grades in MUSE 100 and MUSE 150. Open only to Music Education majors	Fine Arts	Music	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
MUSE	293	Secondary General Music Methods	X		<p>Focuses on philosophy, techniques, and materials needed to teach a general music course in middle and high school settings. Emphasizes teaching skill development, musical characteristics, needs of adolescents, performance-based assessment, technology, classroom management, continued portfolio development, and field experiences. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade or W.</p> <p>Prerequisite: C or better grades in MUSE 100 and MUSE 150. Open only to Music Education majors</p>	Fine Arts	Music	UG
MUSE	350	Contemporary Issues in Music Education: Practicum and Applications	X		<p>Observation and application of specialized music teaching techniques and curricular issues in ensemble and small group settings. Emphasizes performance-based assessment, classroom management, continued portfolio development, cooperative learning strategies, reflective evaluation, and critical thinking skills. A weekly seminar includes music classroom application of universal design for learning, strategies for English language learners, reading in the content area, and special needs accommodations in the music classroom. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade or W. Prerequisite: C or better grades in MUSP 290; and MUSE 100 and 150 and 351 and 353; and MUSE 355 or 356; and MUSE 375 or 376. Open only to music education majors.</p>	Fine Arts	Music	UG
MUSE	355	Instrumental Music Methods (String)	X		<p>Focuses on developing the knowledge, performances, and dispositions required of school instrumental music educators in elementary, middle school, and high school string/orchestra settings. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade of W. Prerequisite: C or better grades in MUSE 100, 150, and 256; or permission of the director of the school. Open only to music majors and minors.</p>	Fine Arts	Music	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
MUSE	356	Choral Music Methods 1	X		Focuses on developing the knowledge, performances, and dispositions required of school choral music educators in elementary and middle school settings. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade or W. Prerequisite: C or better grades in MUSE 100 and 150 and 258 and MUSP 290; permission of the director of the school.	Fine Arts	Music	UG
MUSE	375	Instrumental Music Methods (Band)	X		Focuses on developing the knowledge, performances, and dispositions required of school instrumental music educators in elementary, middle school, and high school band settings. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade of W. Prerequisite: C or better grades in MUSE 100, 150, 250, and 252; or permission of the director of the school. Open only to music majors and minors.	Fine Arts	Music	UG
MUSE	376	Choral Music Methods 2	X		Focuses on developing the knowledge, performances, and dispositions required of school choral music educators in the high school setting. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade or W. Prerequisite: C or better grades in MUSE 100 and 150 and 258 and MUSP 290; permission of the director of the school.	Fine Arts	Music	UG
MUSE	457	Specialized Approaches For Vocal/General Majors	X		Continuing study of music teaching methodologies in elementary general and secondary vocal programs. Topics include an in-depth focus on the approaches of Orff and Kodaly, and a project-based emphasis on organizing and directing madrigal singers, vocal jazz ensembles, show choirs, and musical productions at the middle and high school levels. This course is limited to 2 attempts. An attempt is defined as any registration resulting in a letter grade or W. Prerequisite: C or better grades in MUSE 100 and 150 and 258 and 351 and 353 and 356 and 376; and MUSP 290; permission of the director of the school.	Fine Arts	Music	UG

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MUSE	470	Student Teaching in Music	X		Required for the standard license in all-grade education. Involves a full-day assignment for 16 weeks in a public elementary, junior high/middle, and/or secondary school. Prerequisite: MUSE 350 and permission of the department chairperson. A total of 7 credits may be earned. Open only to music education students.	Fine Arts	Music	UG
MUSE	492	Special Topics in Music Education	X		Consideration of topics, problems, and issues in music education of special interest but not formally treated in other courses. Prerequisite: MUSE 100; permission of the director of the school. A total of 12 credits may be earned, but no more than 6 in any one semester or term. Open only to music students.	Fine Arts	Music	UG
MUSE	592	Special Topics in Music Education	X		Issues of importance in music education. Permits the study of topics not formally treated in other courses. A total of 6 credits may be earned.	Fine Arts	Music	GR
NREM	101	Environment and Society		X	Study of human roles in conservation resource management, environmental quality, and sustainable development. Effects of population and technology on environmental systems including air, energy, minerals, soil, water, vegetation, and wildlife. Environmental ethics, outdoor recreation, and public lands management are also covered. Laboratory and field activities.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	203	Decision Making in Natural Resource Management		X	Application of decision-making principles to natural resource management. Instruction in the use of basic microeconomic principles (investment, capital recovery, property rights, opportunity costs, discounting, compounding, prices) in practical resource management situations within the constraints of environmental laws and regulations. Uses simple algebraic and graphical tools.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	204	American Environmental History	X		Designed to give students knowledge of use of resources in the United States by treating, in historical perspective, government policies and private enterprise practices of exploitation and conservation from settlement to the present. Emphasizes the way use of resources has shaped society. Not open to students who have credit in HIST 204.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	205	International Natural Resources: Development and Conservation		X	An analysis of problems occurring as a result of development and use of natural resources worldwide. The role of resource management and conservation to enhance the carrying capacity of the earth. A case-study approach to the management of global environmental problems.	Sciences and Humanities	Environ Geol Nat Res	UG

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NREM	211	Water Resources	X		Hydrologic cycle and climate as a basis for water resources distribution and management. U.S. and international water resources issues: U.S. water allocation laws, national and international water conflicts, water quality, drinking water and wastewater treatment, surface and ground water hydrology, municipal water resources development. Includes laboratory and field work. Prerequisite: MATH 108 or MATH 110 or MATH 111 or MATH 112 or MATH 113 or MATH 114 or MATH 132 or MATH 161 or MATH 165 or appropriate math placement score and permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	221	Soil Resources	X		Soil as an integral part of our resource base and its relationship to other natural resources; its origin, development, and classification. The physical, chemical, and biological properties, with emphasis on the practical applications of soil science to natural resources planning. Includes laboratory and field work. Prerequisite: CHEM 111; MATH 108 or MATH 110 or MATH 111 or MATH 112 or MATH 113 or MATH 114 or MATH 132 or MATH 161 or MATH 165 or appropriate math placement score and permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	241	Air Resources	X		Survey of atmospheric characteristics and processes as they influence management of natural resources. Current air pollution issues; regulatory requirements and practices. Laboratory and field experiences. Prerequisite: CHEM 111; MATH 108 or MATH 110 or MATH 111 or MATH 112 or MATH 113 or MATH 114 or MATH 132 or MATH 161 or MATH 165 or appropriate math placement score and permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	304	Sustainable Agriculture		X	Natural resource use in agricultural systems with emphasis on principles of sustainability. Includes integrated pest management, permaculture, and other production practices that conserve soil, water, and biological resources. Field trips included.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	307	Environmental Management in Developing Countries		X	Survey of challenges facing management of urban environments and the rural-urban interface in the developing nations of Asia, Africa, Latin America, and Pacific Oceania. Features interdisciplinary approach with frequent guest speakers to discuss existing and potential management, economic, technical, and policy solutions in their regional, cultural, and historic contexts.	Sciences and Humanities	Environ Geol Nat Res	UG

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NREM	309	Human Dimensions of Global Change		X	Systematic exploration of major topics of human and environmental change from local to global scales, including: population, energy, agriculture, industry, technology, urbanization, water, climate, natural hazards, socioeconomic systems, land use, trade, marginalized societies, and biodiversity. Prerequisite: junior standing; or permission of the instructor.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	320	Wetland Characterization	X		Study of wetland functions and values. Delineation of wetland boundaries according to the U.S. Army Corps of Engineers criteria (wetland hydrology, hydric soils, hydrophytic vegetation). Includes a substantial component of field work. Prerequisite: NREM 221; permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	324	Soil Classification and Interpretation	X		Includes soil genesis, morphology, classification, and survey. Stresses the relationship between soil information and the land-use decision-making process with practical applications provided. Considerable emphasis is placed on field study of soils and their uses. Prerequisite: NREM 221 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	331	Energy and Mineral Resources: Issues and Choices	X		Appraisal of the problems, prospects, and societal and technical issues surrounding the use of energy and mineral resources. Emphasizes environmental problems and ecoenergetics, consideration of the natural resource base, distribution and production problems, conservation, alternative energy systems, resource policy, and research.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	335	Renewable Energy and Sustainable Technology		X	Exploration of alternative/renewable energy systems (wind, solar, hydro, biomass, geothermal, fuel cells). Case studies of sustainable technology emphasize topics including industrial ecology (life-cycle analysis, design for the environment, clean manufacturing, and impact assessment) and appropriate technology applications in developing countries. Problem-solving applications using various approaches.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	346	Indoor Environmental Quality	X		Focuses on air quality in residential and nonresidential indoor environments; contaminants; health effects; sick buildings; diagnosis and measurement; mitigation measures. Lab and field experiences.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	347	Occupational/Industrial Hygiene	X		Introduces the principles of assessing and controlling exposures to workplace hazards. Topics include occupational disease; exposure to contaminant gases, dusts, radiation, noise, and biological agents; ergonomic concerns; regulatory requirements; engineering control; and personal protection equipment.	Sciences and Humanities	Environ Geol Nat Res	UG

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NREM	357	International Community Development		X	Application of practical methods to problems of development in poor rural agrarian communities and environmental management in poor urban communities in Asia, Africa, and Latin America. Emphasizes face-to-face methodologies to the identification and development of workable solutions to resource and environmental problems of disadvantaged populations in developing nations.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	371	Outdoor Recreation and Society	X		The role of outdoor recreation in modern society. Perspectives ranging from local to global. Examination of the history of outdoor recreation in the United States to the present day, with emphasis on issues in both public and private sectors. May require one weekend field trip in addition to regular laboratory periods.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	372	Applied Research Methods in Resource Management		X	Social science applications in natural resource and environmental management. These applications include quantitative and qualitative survey research designs, analysis of social data, and applications of survey results to political processes. Perspectives range from local to international.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	385	Wastewater Management	X		Effects of wastewater on receiving waters, need for wastewater treatment, principles of wastewater treatment technologies: onsite, centralized, conventional and alternative treatment technologies; management and regulatory strategies. Includes field trip(s). Prerequisite: NREM 211 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	392	Environmental Interpretation	X		Develops skills and techniques necessary to the interpretation of ecological and environmental characteristics of earth systems. Emphasizes field work and creative presentation of concepts, and organization and management of interpretive programs including sites and facilities. Prerequisite: NREM 101 or its equivalent; junior standing.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	395	Teaching Environmental Education	X		Opportunities for enriching instruction through environmental education in formal and non-formal educational settings. Studies conservation, outdoor and environmental education, including teaching techniques and instructional resources used in each. Prerequisite: NREM 101 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	401	Forest Planning and Stewardship		X	Introduces students to the social, economic, and ecological forces that shape U.S. private forests. Takes an in-depth look at forest landowner values, attitudes, and perceptions of forests and linkages to management decision-making strategies and behaviors. Also introduces students to the skills they will need to interact with private forest landowners (PFLs) and forest management professionals. Students will develop forest stewardship plans based on interactions with PFLs on their property and information from forest professionals. Prerequisite: NREM 101, 211, and 221 or permission of instructor or department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	405	Integrated Resource Management		X	Systems perspective on holistic or integrated planning and management of natural resources. Stresses data analysis and its role in the decision-making process. Prerequisite: NREM 101 or equivalent; all core courses in natural resources and environmental management (or concurrent enrollment); junior or senior standing.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	415	Water Quality Management	X		Effects, consequences of point and non-point sources of pollution on quality of surface and drinking water; occurrence, sources and effects of regulated and unregulated contaminants; role of regulations in water quality management in U.S., centralized drinking water and wastewater treatment. Laboratory analysis of water quality parameters; may include field work. Prerequisite: NREM 211 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	422	Soil Quality	X		Chemical, physical, and biological properties of soil that affect plant production and other land uses. Emphasizes nutrient cycles in natural and cropped systems. Use and fate of pesticides. Land application of agricultural and urban wastes. Prerequisite: NREM 221 or its equivalent; CHEM 111 or its equivalent or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	427	Soil Conservation and Management	X		Stresses principles and methods of control of soil erosion using basic soil concepts. Studies management systems and individual practices with special emphasis on soil resource maintenance. Prerequisite: NREM 221 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	442	Air Quality Management	X		Basic technical and regulatory requirements of air quality management to plan and guide a successful air quality program at the facility level. Compliance, emission inventories and processes, meteorology and dispersion modeling, and permitting. Prerequisite: NREM 241.	Sciences and Humanities	Environ Geol Nat Res	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	473	Outdoor Recreation Planning and Administration	X		Application of basic principles and procedures for the planning and administration of resource-based and activity-based recreation areas. May require one weekend field trip as well as in-class field trips. Prerequisite: NREM 371 or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	477	Wilderness and Society	X		Defining wilderness, understanding its unique significance, and analyzing techniques of past and present management. Includes study of research in perception and use. Weekend trip to the Deam Wilderness--Hoosier National Forest or a state forest back country area. Prerequisite: junior standing.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	487	Solid and Hazardous Waste Management	X		Delineation of solid and hazardous waste management in the United States. Waste reduction, recycling, processing, and disposal methods are discussed. Technical, political, and economic aspects of waste management. Effects of improper disposal on environmental quality. Prerequisite: junior standing or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	488	Site Assessment and Remediation	X		Experience with Phase I and Phase II environmental site assessments. Conventional and innovative technologies for remediation of contaminated soils and groundwater. Review of relevant environmental regulations. Some environmental chemistry. Open only to juniors or seniors.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	490	Community Engagement in Natural Resources and Environmental Management	X		Professional experience with a client whose needs are matched by the NREM faculty. Each experience is unique and determined by the nature of the client-professor relationship. Prerequisite: NREM 101 or equivalent; junior or senior standing. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	Environ Geol Nat Res	UG
NREM	501	Forest Planning and Stewardship		X	Introduces students to the social, economic, and ecological forces that shape U.S. private forests. Takes an in-depth look at forest landowner values, attitudes, and perceptions of forests and linkages to management decision-making strategies and behaviors. Also introduces students to the skills they will need to interact with private forest landowners (PFLs) and forest management professionals. Students will develop forest stewardship plans based on interactions with PFLs on their property and information from forest professionals.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	502	Field Study	X		Off-campus field studies of a specific geographic area with emphasis on resource management. Details of arrangements (including group travel plans and housing) will be provided by the instructor. Prerequisite: permission of the department chairperson. A total of 6 credits may be earned. A maximum of 3 credits apply to NREM majors.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	504	Sustainable Agriculture		X	Natural resource use in agricultural systems with emphasis on principles of sustainability. Includes integrated pest management, permaculture, and other production practices that conserve soil, water, and biological resources. Field trips included. Not open to students who have credit in NREM 304.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	505	Integrated Resource Management		X	Systems perspective on holistic or integrated planning and management of natural resources. Stresses data analysis and its role in the decision-making process. Prerequisite: permission of the department chairperson. Not open to students who have credit in NREM 405.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	507	Environmental Management in Developing Countries	X		Survey of challenges facing management of urban environments and the rural-urban interface in the developing nations of Asia, Africa, Latin America, and Pacific Oceania. Features interdisciplinary approach with frequent guest speakers to discuss existing and potential management, economic, technical, and policy solutions in their regional, cultural, and historical contexts. Not open to students who have credit in NREM 307.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	509	Human Dimensions of Global Change	X		Systematic exploration of major topics of human and environmental change from local to global scales, including population, energy, agriculture, industry, technology, urbanization, water, climate, natural hazards, socio-economic systems, land use, trade, marginalized societies, and biodiversity. Not open to students who have credit in NREM 309.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	511	Water Resources	X		Hydrologic cycle and climate as a basis for water resources distribution and management. U.S. and international water resources issues: U.S. water allocation laws, national and international water conflicts, water quality, drinking water and wastewater treatment, surface and ground water hydrology, municipal water resources development. Includes laboratory and field work and a graduate-level research project.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	520	Wetland Characterization	X		Study of wetland functions and values. Delineation of wetland boundaries according to the U.S. Army Corps of Engineers criteria (wetland hydrology, hydric soils, hydrophytic vegetation). Includes a substantial component of field work. Prerequisite: permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	521	Soil Resources	X		The basic properties of the soil portion of the ecosystem. Prime emphasis on the genesis and resulting chemical and physical characteristics of soils. Includes a graduate-level research project. Prerequisite: CHEM 112, or the equivalent; or permission of the department chairperson.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	524	Soil Classification and Interpretation	X		Soil genesis, morphology, classification, and survey. The relationship between soils information and land use; practical application in the decision-making process. Emphasizes field study of soils and their uses. Not open to students who have credit in NREM 324.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	531	Energy and Mineral Resources: Issues and Choices	X		Appraisal of the problems, prospects, and societal and technical issues surrounding the use of energy and mineral resources. Emphasizes environmental problems and ecoenergetics, consideration of the natural resource base, distribution and production problems, conservation, alternative energy systems, resource policy, and research. Not open to students who have credit in NREM 331.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	535	Renewable Energy and Sustainable Technology		X	Exploration of alternative/renewable energy systems (wind, solar, hydro, biomass, geothermal, fuel cells). Case studies of sustainable technology emphasize topics including industrial ecology (life-cycle analysis, design for the environment, clean manufacturing, and impact assessment) and appropriate technology applications in developing countries. Problem-solving applications using various approaches. Not open to students who have credit in NREM 335.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	541	Air Quality	X		Focuses on the contamination of the atmospheric environment. Topics include major contaminants; measurement techniques; dispersion; effects on the atmosphere, human health, vegetation, and materials; regulatory requirements and practices; control measures; noise pollution. Lab and field experiences. Not open to students who have credit in NREM 241.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	546	Indoor Environmental Quality	X		Focuses on problems in residential and nonresidential indoor environments; contaminants; health effects; sick buildings; diagnosis and measurement; mitigation measures. Lab and field experiences. Not open to students who have credit in NREM 346.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	547	Occupational/Industrial Hygiene	X		Introduces the principles of assessing and controlling exposures to workplace hazards. Topics include occupational disease; exposure to contaminant gases, dusts, radiation, noise, and biological agents; ergonomic concerns; regulatory requirements; engineering control and personal protection equipment. Not open to students who have credit in NREM 347.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	557	International Community Development	X		Application of practical methods to problems of development in poor rural agrarian communities and environmental management in poor urban communities in Asia, Africa, and Latin America. Emphasizes face-to-face methodologies to the identification and development of workable solutions to resource and environmental problems of disadvantaged populations in developing nations. Not open to students who have credit in NREM 357.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	571	Outdoor Recreation and Society	X		The role of outdoor recreation in modern society. Perspectives ranging from local to global. Examination of the history of growth in outdoor recreation in the United States to the present day, emphasizing issues in both public and private sectors. May require one weekend field trip in addition to regular laboratory periods. Not open to students who have credit in NREM 371.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	573	Outdoor Recreation Planning and Administration	X		Application of basic principles and procedures for the planning and administration of resource-based and activity-based recreation areas. May require one weekend field trip as well as in-class field trips. Prerequisite: NREM 371 or 571 or permission of the department chairperson. Not open to students who have credit in NREM 473.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	577	Wilderness and Society	X		Defining wilderness, understanding its unique significance, and analyzing techniques of past and present management. Includes study of research in perception and use. Weekend trip to the Deam Wilderness--Hoosier National Forest or a state forest backcountry area. Not open to students who have credit in NREM 477.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	585	Wastewater Management	X		Effects of wastewater on receiving waters, need for wastewater treatment, principles of wastewater treatment technologies: onsite, centralized, conventional and alternative treatment technologies; management and regulatory strategies. Includes field trip(s). Not open to students who have credit in NREM 385.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	590	Community Engagement in Natural Resources and Environmental Management	X		This course provides immersive and community engaged learning experiences for students. Students and faculty will work collaboratively with a community partner to help solve a real-world issue. Each course experience is unique and determined by the nature of the community partner and the work they do.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	592	Environmental Interpretation	X		Develops skills and techniques necessary to the interpretation of ecological and environmental characteristics of earth systems. Emphasizes field work and creative presentation of concepts, and organization and management of interpretive programs including sites and facilities. Not open to students who have credit in NREM 392.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	595	Teaching Environmental Education	X		Opportunities for enriching instruction through environmental education in formal and nonformal educational settings. Studies conservation, outdoor and environmental education, including teaching techniques and instructional resources used in each. Not open to students who have credit in NREM 395.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	615	Water Quality Management	X		Effects and consequences of point and non-point sources of pollution on quality of surface and drinking water; occurrence, sources and effects of regulated and unregulated contaminants; role of regulations in water quality management in U.S., centralized drinking water and wastewater treatment. Laboratory analysis of water quality parameters; may include field work. Prerequisite: NREM 511 or permission of the department chairperson. Not open to students who have credit in NREM 415 or NREM 515. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	622	Soil Quality	X		Chemical, physical, and biological properties of soil that affect plant production and other land uses. Emphasizes nutrient cycles in natural and cropped systems. Use and fate of pesticides. Land application of agricultural and urban wastes. Prerequisite: introductory general chemistry course; introductory soils course, or permission of the department chairperson. Not open to students who have credit in NREM 422 or NREM 522. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	627	Soil Conservation and Management	X		Advanced principles and methods of controlling soil erosion, stressing use of advanced soil concepts. Advanced management systems and individual practices, with special emphasis on advanced soil resource maintenance. Field work and laboratory work is required. Prerequisite: introductory soils course or permission of department chairperson. Not open to students who have credit in NREM 427 or NREM 527. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NREM	642	Air Quality Management	X		Basic, technical, and regulatory requirements of air quality management to plan and guide a successful air quality program at the facility level. Compliance, emission inventories and processes, meteorology and dispersion modeling, and permitting. Prerequisite: introductory general chemistry course; introductory air resources course, such as NREM 541 or permission of the department chairperson. Not open to students who have credit in NREM 442 or NREM 542. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	652	Air, Water and Soil Pollution		X	Chemical and biological processes related to environmental pollution, with emphasis on causes, pathways and risks to public health and the environment. Conventional and innovative technologies for remediation of contaminated air, water and soil. Some environmental chemistry. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	687	Solid and Hazardous Waste Management	X		Delineation of solid and hazardous waste management in the United States. Waste reduction, recycling, processing, and disposal methods are discussed. Technical, political, and economic aspects of waste management. Effects of improper disposal on environmental quality. Prerequisite: introductory general chemistry course. Not open to students who have credit in NREM 487 or NREM 587. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR
NREM	688	Site Assessment and Remediation	X		Experience with Phase I and Phase II environmental site assessments. Conventional and innovative technologies for remediation of contaminated soils and groundwater. Review of relevant environmental regulations. Some environmental chemistry. Prerequisite: introductory general chemistry course. Not open to students who have credit in NREM 488 or NREM 588. Open only to graduate students.	Sciences and Humanities	Environ Geol Nat Res	GR
NUTR	200	Mindful Eating	X		Mindful eating provides a flexible, non-diet, mindfulness-based approach to eating and self-care. Students will explore the six crucial decision points in the mindful eating cycle and develop sustainable skills for effective lifestyle management. Prerequisites: None	College of Health	Nutrition and Health Science	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
NUTR	350	Technology of Food Science	X		Scientific evaluation of the behavior of food and its qualitative and quantitative properties. Overview of the food industry, food technology, biotechnology, and federal regulations related to food supply. Review of research and marketing practices of bioengineered food and dietary supplements. Prerequisite: HOSP 220. Open only to students admitted into the dietetics program.	College of Health	Nutrition and Health Science	UG
NUTR	363	Administration of Food and Nutrition Systems	X		A systems approach to foodservice management theories, concepts, and functions for integrated health care, public institutions, and nutrition care operations. Emphasizes the operational functions of purchasing, production, and administration of food and nutrition services.	College of Health	Nutrition and Health Science	UG
NUTR	456	Community Nutrition	X		Overview of community nutrition and nutrition education. Analysis of biological, economic, social, cultural, and policy issue affecting a community's nutritional status. Emphasis on federal food and nutrition programs and policy implications at the state and local level. Observation and participation in local nutrition programs. Prerequisite: NUTR 455.	College of Health	Nutrition and Health Science	UG
NUTR	645	Nutrition and Food Policy	X		This course explores select food and nutrition related policies in the United States. Students will learn the overview of the roles and responsibilities of federal agencies, local government agencies, private-sector firms, and other special interest groups in the formation, implementation and evaluation of food and nutrition related policies. The course will also compare and contrast national and international perspectives on food and nutrition policies and programs used to support food security and global nutrition. Prerequisites: There are no formal prerequisites for taking the course; however, students are expected to be familiar with the basic principles of nutrition.	College of Health	Nutrition and Health Science	GR
PHIL	240	Society, Discipline, and Control	X		A critical examination of the role of institutional control in contemporary society. Involves philosophical discussion of the impact of institutions such as schools, hospitals, public housing, prisons, and the media on individuals and groups. Also examines the relationships between discipline and control and race, class, gender, and sexuality.	Sciences and Humanities	Philosophy/Religious Studies	UG
PHIL	306	Contemporary Philosophy	X		A critical examination of leading philosophers or movements since 1900. May emphasize contemporary (e.g. feminist, phenomenological) methodologies. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Sciences and Humanities	Philosophy/Religious Studies	UG

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PHIL	390	Honors Colloquium in Philosophy		X	Exploration of selected problems in philosophy with emphasis on individual study. Open only to students in the Honors College or by permission of the department chairperson.	Sciences and Humanities	Philosophy/Religious Studies	UG
PHIL	420	Contemporary Ethical Theory and Problems		X	A critical examination of recent ethical theories and their application to contemporary problems. Prerequisite: junior or senior standing or permission of the instructor.	Sciences and Humanities	Philosophy/Religious Studies	UG
PHYC	151	Energy: Technology and Society	X		An investigation of the sources, generation, transmission, storage, and uses of energy based on physical laws and processes, and an overview of the implications and consequences for society.	Sciences and Humanities	Physics and Astronomy	UG
PLAN	202	Site Planning and Design Studio	X		Site analysis and design principles for small-scale projects, including building complexes, subdivisions, and neighborhood development. Present and defend designs for specific site locations. Prerequisite: CAP first year core program.	Architecture and Planning	Urban Planning	UG
PLAN	203	Regional Analysis and Design Studio	X		Land analysis and planning at regional scale. Training to inventory social and physical elements on a regional scale, analyze the suitability of land and the vulnerability of the environment for development, and locate urban functions. Introduces computer-assisted models for land-suitability analysis.	Architecture and Planning	Urban Planning	UG
PLAN	261	Communication and Presentation Techniques	X		Development of graphic and visualization skills for planners. Use of a variety of communication techniques and media for public presentation. Open only to urban planning majors and minors.	Architecture and Planning	Urban Planning	UG
PLAN	605	Design and Presentation Techniques	X		Introduction to graphic techniques and design processes. Lecture and studio exercises on problem solving and public presentation of findings. For planning and preservation students without undergraduate training in design. A total of 3 credits may be earned.	Architecture and Planning	Urban Planning	GR
PLAN	629	Planning Analysis Studio	X		Analysis and design principles at regional, urban, and local scale, including environmental suitability, land-use locational criteria, and site planning criteria for Greenfield or redevelopment sites. Students defend proposals based on analytical and design techniques. Six contact hours.	Architecture and Planning	Urban Planning	GR
PLAN	692	Capstone Studio for Planning	X		Culminating course that enables students to apply the skills they learned in the graduate planning program by working to complete a capstone project. The project enables students to gain important practical experience and to demonstrate their academic and professional competence. In addition, the capstone experience facilitates student reflection on the knowledge and values acquired in the graduate planning program. Prerequisites: PLAN 613 and PLAN 614.	Architecture and Planning	Coll of Architecture & Plan	GR

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PMGT	104	Housing Decisions	X		Overview of the importance of housing and the options available. Topics include location, house plans, ownership, renting, legal and financial aspects, architectural styles, cultural issues, and special housing needs. Designed to meet the needs of housing consumers and those seeking a housing-related career. Open to all students.	Miller College of Business	Applied Business Studies	UG
PMGT	303	Property Development and Construction	X		Introduction to the phases of development and construction in business operated investment properties. This course is designed to provide an overview of project conception through construction completion. Prerequisite: PMGT 135	Miller College of Business	Applied Business Studies	UG
PMGT	305	Facilities Management	X		An introduction to the engineering and maintenance requirements for properties that are operated for commercial purposes. Special emphasis on building operating systems, management, cost control, and environmental issues. Prerequisite: PMGT 135	Miller College of Business	Applied Business Studies	UG
PMGT	350	Residential Equipment, Energy and Technology	X		Exploration of the selection, use, care, and disposal of major equipment for residential uses. Analysis of household energy use and techniques for conservation. Includes the study of technological advances in residential equipment. Open to all students.	Miller College of Business	Applied Business Studies	UG
PMGT	425	Property Management Capstone	X		This capstone course is a summative experience where the student will demonstrate the integrated knowledge and growth in the Property Management major under the framework of the strategic planning and management process. Prerequisite: PMGT 370	Miller College of Business	Applied Business Studies	UG
PMGT	435	Trends and Issues in Property Management	X		Provides the opportunity to identify, research, and disseminate information on the trends and issues affecting the property management industry. Students will be able to demonstrate their ability to find and use a wide variety of resources. Prerequisite: PMGT 370 with a C or better; senior standing. Students must sit for the Certified Apartment Manager exam.	Miller College of Business	Applied Business Studies	UG
PSYS	324	Psychology of Women and Gender	X		Explores both biological and social influences on women's experiences, behavior, self-concepts, and psychological conflicts. Topics covered include relationships, work, gender across the lifespan, violence, health, sex-related differences, and women in the future, with an emphasis on the diversity of women's experiences. Prerequisite: PSYS 100.	Sciences and Humanities	Psychological Science	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
RELS	160	Religion in Culture	X		Religion is everywhere, but what is it and what does it do? This course introduces religion's impact on humans and how humans have shaped religious practices in diverse and sometimes surprising ways.	Sciences and Humanities	Philosophy/Religious Studies	UG
RELS	210	Religion, Morality, and Public Debate	X		Examination of approaches to moral reasoning, the role of religious traditions in forming ethical judgments, and the relationship between moral argument and public debate. Also addresses a range of moral issues that citizens and scholars debate in religious and secular terms.	Sciences and Humanities	Philosophy/Religious Studies	UG
SCCO	600	Introduction to School Counseling	X		Counseling and guidance in the schools for counselors, teachers, administrators, and other educational personnel. History and philosophy of school counseling, counselor roles and function, modes of intervention (e.g., direct services, consultation, curriculum), and ethics of school counseling will be studied.	Teachers College	Educational Psychology	GR
SCCO	601	Introduction to Identity and Leadership Development for Counselors	X		Expands upon the Identity and Leadership Development Workshop for Counselors. Students focus on the Nine-Step Success Process and develop the knowledge and skills they need to meet the identity needs of secondary students, especially those from diverse backgrounds, or who may be at risk.	Teachers College	Educational Psychology	GR
SCCO	606	Child Therapy and Assessment	X		Investigation of major theories of counseling and psychotherapy with children and adolescents. Core assessment constructs will be reviewed and applied. Models of assessment and therapy techniques are used to develop basic skills needed to effectively counsel children and teens. Parallel: SCCO 600 or permission of the department chairperson.	Teachers College	Educational Psychology	GR
SCCO	614	College and Career Readiness	X		School counselors' roles in using career development theory, results from career-related assessment and diagnostic tools, intervention strategies related to career exploration, decision making, and life career adjustment; sources and application of career-development materials. Prerequisite: 9 or more credits in counseling and guidance courses including SCCO 600 and 606.	Teachers College	Educational Psychology	GR

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SCCO	644	Practicum in School Counseling	X		Supervised experience that includes counseling with one or more of the following populations: children, adolescents, and families under the supervision of a professional counselor. Practical experience for building individual, group, and school-related counseling skills and practice various strategies for functioning as effective school counselors. Prerequisite: SCCO 600 and 606, or permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term. Open only to school counseling and school psychology students; other graduate students by permission.	Teachers College	Educational Psychology	GR
SCCO	646	Advanced Practicum in School Counseling	X		Advanced supervised experience that includes counseling with one or more of the following populations: children, adolescents, and families under the supervision of a professional counselor. Practical experience for building individual, group, and school-related counseling skills and practice various strategies for functioning as effective school counselors. Prerequisite: SCCO 644 or permission of the department chairperson. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Teachers College	Educational Psychology	GR
SCCO	653	Research in School Counseling	X		Students will investigate, summarize, and interpret research in school counseling with a perspective that incorporates a focus on systemic change, advocacy, leadership and collaboration in schools settings. Each student will write and submit a research report to fulfill course requirements. Prerequisite: SCCO 600 and 606, or permission of the department chairperson.	Teachers College	Educational Psychology	GR
SCCO	660	Partnership and Collaboration in Schools	X		Theory and practice of partnerships, collaboration, and consultation services in the school setting are examined. Skills needed by school counselors to implement and evaluate comprehensive school-family-community partnership models will be developed. Prerequisite: SCCO 600 or permission of the department chairperson. Parallel: SCCO 685.	Teachers College	Educational Psychology	GR
SCCO	675	Counseling Exceptional Children	X		Examination of theory and research on the social, emotional, and career needs of exceptional children. Emphasizes counseling program development, models, and skills to meet the special needs of this population. Prerequisite: SCCO 644 or permission of the department chairperson. Prerequisite or parallel: SPCE 600, 646.	Teachers College	Educational Psychology	GR

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SCCO	685	Organization of the Guidance Program	X		Organization, administration, and functions of counselors, teachers, and administrators in guidance programs. Emphasizes evaluation and improvement of effectiveness and efficiency of the guidance program in facilitating growth and development. Prerequisite: 9 or more credits in counseling and guidance courses including SCCO 600 and 606.	Teachers College	Educational Psychology	GR
SCCO	688	Group Counseling in Schools	X		Major approaches to group counseling theory and techniques applied to group work in school settings to promote the academic, college/career, and personal/social development of children and adolescents. Interpersonal dynamics, personal communication styles, and fundamental group counseling strategies will be examined through group facilitation experiences and class discussion. Prerequisite: SCCO 600.	Teachers College	Educational Psychology	GR
SCCO	692	Youth Crisis and Trauma Counseling	X		Investigation of the individual and systemic impact of traumatic life events on children, adolescents and families. School based crisis and trauma prevention, intervention, and assessment skills will be developed. Prerequisite: SCCO 600 and 606 or permission of the department chairperson.	Teachers College	Educational Psychology	GR
SCCO	695	Field Internship in School Counseling	X		Intensive supervised experience in application of basic psychotherapeutic procedures and evaluation techniques in an approved school setting. Experience will be gained in one or several approved schools under joint supervision of a university faculty member and a school representative designated for this responsibility. Prerequisite: SCCO 644 and 646. A total of 12 credits may be earned, but no more than 6 in any one semester or term.	Teachers College	Educational Psychology	GR
SEPS	600	Internship in Sport and Exercise Psychology		X	This course, taught by a mental performance consultant certified through the Association of Applied Sport Psychology, will entail analysis, synthesis, and application of advanced sport and exercise psychology topics and techniques with individuals and teams. Students will work with clients throughout the semester in a mentored environment. Prerequisite: SEPS 609 and SEPS 611; permission of the program coordinator. A total of 12 credits may be earned.	College of Health	Kinesiology	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SEPS	611	Practicum in Sport and Exercise Psychology		X	This course, taught by a certified sport psychology consultant, will entail analysis, synthesis, and application of advanced sport and exercise psychology topics and techniques with individuals and teams. Special emphasis will be placed on blending theory and ethical guidelines with applied issues through fieldwork experiences with various populations. Prerequisite: SEP 609; permission of the instructor or program coordinator. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	College of Health	Kinesiology	GR
SEPS	690	Sport Sociology		X	An insight into America's heritage of sports and physical education and how this and various cultural and social institutions influence contemporary sports in the United States.	College of Health	Kinesiology	GR
SOC	100	Principles of Sociology	X		An introduction to sociology. Gives an understanding of theories and research on social structures, processes, and problems.	Sciences and Humanities	Sociology	UG
SOC	200	Sociological Thinking	X		Designed to provide students with a deeper understanding of how sociologists approach the world including how they think, ask questions, and ultimately take action. Focuses on promoting sociological thinking, demonstrating the discipline's relevance for social and community issues, and illustrating potential career opportunities within the field. Prerequisite: SOC 100 or permission of the instructor.	Sciences and Humanities	Sociology	UG
SOC	224	Family and Society	X		Introductory analysis of the interrelationship between family and society. Examines family within a historical, structural, and cultural context with an emphasis on demography, stratification, race/ethnicity, and power dynamics.	Sciences and Humanities	Sociology	UG
SOC	320	Social Inequality	X		Examines causes and consequences of social class, status, and mobility in the United States and other countries. Prerequisite: SOC 100 or permission of the instructor.	Sciences and Humanities	Sociology	UG
SOC	425	Sociology of Law	X		Provides a sociological understanding of law. Specifically focuses on the reciprocal relationship between law and the social world. Uses sociological theory to help recognize, evaluate, and appreciate law in society. Prerequisite: SOC 100 and 6 SOC credits, or permission of the instructor.	Sciences and Humanities	Sociology	UG
SOC	470	Population Dynamics and Demographic Methods	X		Investigation of historical and contemporary demographic patterns and their implications for the future. Use of demographic methods to analyze composition, distribution, and growth of human populations. Prerequisite: SOC 100 and 6 SOC credits, or permission of the instructor.	Sciences and Humanities	Sociology	UG
SOC	603	Readings in Sociological Theory	X		Focuses on the reading and in-depth study of significant contemporary sociological works.	Sciences and Humanities	Sociology	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SOCW	460	Social Work Practicum	X		Full-time practicum in an approved field instruction site that provides structured learning opportunities to demonstrate baccalaureate-level social work foundation knowledge, professional standards, and practice competencies required of an entry-level generalist social worker. Prerequisite: SOCW 410 and 430 and 440; ANTH 311 or COMM 290 or EDMU 205 or SOC 421; ANTH 241 or PSYS 324 or SOC 235 or WGS 210; or permission of the department chairperson. Open only to social work majors.	College of Health	Social Work	UG
SOCW	462	Social Work Practicum Seminar	X		Focuses on the integration of entry-level generalist social work practice knowledge, professional ethical standards, and competencies; analyzes applied generalist practice settings and interventions using assignments based on the concurrent field experiences in SOCW 460; and emphasizes ongoing professional development. Prerequisite: SOCW 410 and 430 and 440; ANTH 311 or COMM 290 or EDMU 205 or SOC 421; ANTH 241 or PSYS 324 or SOC 235 or WGS 210; or permission of the department chairperson. Open only to social work majors.	College of Health	Social Work	UG
SOCW	575	Social Welfare Policy with the Elderly	X		The course is concerned with the major social welfare policies that affect the elderly. Focus will be on problems of the elderly and social welfare policies and programs directed at the reduction of such problems. Prerequisite: SOC 431, 531.	College of Health	Social Work	GR
SOCW	602	Diversity, Oppression, and Privilege	X		Institutionalized oppression and its implications for communication at the individual, organizational, and community level. Content emphasizes power, oppression, and privilege and the consequences of social and economic inequality. Special emphasis is placed on cross-cultural communication, cultural competency, multicultural counseling, recognizing and moderating individual biases, and communicating effectively with marginalized people. Theories of power, conflict, and restorative justice are explored. Open only to SOCW students or by permission of the advisor or department chairperson.	College of Health	Social Work	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SOCW	603	Rural Social Work	X		Provides instruction to rural communities and explores the ways to serve these communities more effectively from a strengths perspective. Topics will include social, political, economic, and cultural strengths and challenges facing rural communities. Students will explore different theoretical perspectives of rural life, ethical issues, shifting demographics, and various public health challenges for rural communities including addiction, health disparities, family violence, and elders aging in place. Students will be challenged to find innovative solutions and best practices for complex rural problems. Open only to SOCW students or by permission of the advisor or department chairperson.	College of Health	Social Work	GR
SOCW	613	Advanced Generalist Rural Practice 1	X		Provides students with practice models compatible with an ecological systems perspective and with skills for working with individuals, families, and groups in rural communities. This is a clinical course with special emphasis on counseling addicted family systems within the complex rural environment. Content includes heavy emphasis on the National Association of Social Workers (NASW) Code of Ethics, social work and addictions licensure, and the legal, ethical, and professional standards in the practice of clinical social work and addiction counseling. Prerequisite: SOCW 611 or Advanced Standing status or permission of the advisor of department chairperson. Open only to SOCW students or permission of the director of department chairperson.	College of Health	Social Work	GR
SOCW	614	Advanced Generalist Rural Practice 2	X		Provides students with practice models compatible with an ecological systems perspective and with skills for working with organizations and communities in rural communities. This is a management course with special emphasis on leadership, organizational behavior, personnel and supervision, budgeting, program development, and fundraising within the complex rural environment. Prerequisite: SOCW 612 or permission of the advisor of department chairperson. Open only to SOCW students.	College of Health	Social Work	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SOCW	621	Social Welfare Policy and Programs	X		A social work foundation course which provides an overview of current social welfare policy and programs. Students will examine historical, social, economic, political, organizational, environmental, and global influences on current social welfare policy and programs. Students will learn models of analysis, advocacy strategies, and their impact on vulnerable and marginalized populations. Open only to SOCW students or by permission of the advisor or department chairperson.	College of Health	Social Work	GR
SOCW	630	Micro Perspectives of Human Behavior in the Social Environment	X		Micro perspectives of HBSE focuses on the interaction between people and their environment with special emphasis on individuals, families, and groups. Focuses on theories related to biological, psychological, social, spiritual, and cultural processes as they develop across the life span. Special emphasis placed on traditional and non-dominant theories of identity development, traditional and non-traditional family structures, and group dynamics. Strengths, adaptation, and resilience are emphasized throughout the course. Open only to SOCW students or permission of the advisor or department chairperson.	College of Health	Social Work	GR
SOCW	631	Macro Perspectives of Human Behavior in the Social Environment	X		Macro perspectives of HBSE focuses on the interaction between people and their environment with special emphasis on organizations and communities. Focuses on theories of organizational behavior, management, leadership, community development, social control, and empowerment. Content focuses on traditional and non-dominant theories for generalist social work practice, particularly with organizations and communities. Special emphasis is placed on the role of leadership in the support of diverse groups and marginalized voices. Open only to SOCW students or by permission of the advisor or department chairperson.	College of Health	Social Work	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SOCW	651	Social Work Practice with Mental Health and Addictions	X		This advanced social work course prepares students with knowledge and skills to work with individuals, families, and groups with mental illness and/or substance use disorders. Outcomes include understanding service delivery systems, regulations and licensure, clinical problems, risk assessment tools, addiction counseling theories and techniques, theory and practice of group addiction counseling, case planning, and evidence based interventions. Special knowledge and skills concerning ethical practice with rural, dual-diagnosis, and involuntary clients are emphasized. Open only to SOCW students or permission of the director or department chairperson.	College of Health	Social Work	GR
SOCW	652	Differential Assessment in Mental Health and Addictions	X		This advanced clinical course teaches social workers to identify major mental, developmental, personality, substance-related, and addictive disorders. Significant content includes regulatory issues, psychopathology, psychopharmacology, clinical appraisal and assessment of personal and interpersonal functioning. Special attention to the specific roles, functions, and scope of practice for clinical social workers on interprofessional teams is emphasized throughout the course. Prerequisite: SOCW 651 permission of advisor or department chairperson. Open only to SOCW students or permission of the director or department chairperson.	College of Health	Social Work	GR
SOCW	662	Social Work Field Practicum 1	X		Offers an educationally focused and professionally supervised practicum placement in a social service agency at an assigned site. Students are required to spend 350 hours (22-32 hours per week) at the site over the semester and attend on-campus capstone seminars to process learning and course projects. Open only to SOCW students. Prerequisite: SNLN 255.	College of Health	Social Work	GR
SOCW	663	Social Work Practicum 2	X		Offers an educationally-focused and professionally supervised practicum placement in a social service agency at an assigned site. Students are required to spend at least 350 hours (22-32 hours per week) at the site over the semester and attend on-campus capstone seminars to process learning and discuss course projects. Prerequisite: permission of the advisor or department chairperson. Open only to SOCW students.	College of Health	Social Work	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SOCW	664	Social Work Field Practicum 3	X		Offers an educationally-focused and professionally supervised practicum placement in a social service agency at an assigned site. Students are required to spend at least 350 hours (22-32 hours per week) at the site over the semester and attend on-campus capstone seminars to process learning and discuss course projects. Prerequisite: 663 or permission of advisor or department chairperson. Open only to SOCW students or permission of the director or department chairperson.	College of Health	Social Work	GR
SOCW	671	Social Work with Elders	X		Focuses on the diverse life experiences of people aged 65 and older, their families, and communities. Examines the physical, psychological, and social aspects of aging and the impact of these changes on elders, their families, and the social systems within which they function. Special attention is paid to the social work perspective for theories of late life, needs of diverse elders and caregivers, and policies and programs which sustain and enhance the functioning and well-being of older adults. Open only to SOCW students or by permission of the advisor or department chairperson.	College of Health	Social Work	GR
SOCW	674	Social Work in Health Care	X		Explores the central contribution of social work in comprehensive health care delivery, both traditional and alternative. Students learn career options and professional roles of social workers on inter-professional teams and the psychological effects of wellness, illness, disability, and death. Significant emphasis is placed on health care policy, regulatory issues in health care, social determinants of health, health disparities, social work ethics, and the primary social work role as advocate for marginalized people. Open only to SOCW students or by permission of the advisor or department chairperson.	College of Health	Social Work	GR

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SOCW	680	Social Work Leadership and Administration	X		Examines leadership and the organizational context of social work practice. Focus on organizational adaptability and leadership roles at all levels in non-profit, health, and human service organizations. Leadership issues in supervision, conflict resolution, inter-organizational relations, finance, grant writing, budgeting, program development, and evaluation are emphasized. Topics will be adapted to the specific needs of students with respect to their areas of study with vulnerable populations. Prerequisite: SOCW 612 or Advanced Standing status or permission of advisor or department chairperson. Open only to SOCW students or permission of the director or department chairperson.	College of Health	Social Work	GR
SOCW	682	Advanced Social Welfare Policy and Programs	X		An advanced social work course which will provide students with advanced knowledge of public policies and advocacy for social change in their area of interest. Emerging issues and the impact of current events on populations of interest will be examined. Students will learn the process of creating and changing policy at the agency, community, and legislative level and the effect of interest and the advocacy groups. Students will learn the tools to communicate with stakeholders about the implications of policies and policy change in the service delivery process and will provide leadership in the analysis, formulation, and advocacy for policies that advance human rights, social, economic and environmental justice. Prerequisite: Advanced Standing status or permission of advisor or department chairperson. Open only to SOCW students.	College of Health	Social Work	GR
SPTA	190	Introduction to Sport Administration		X	An introductory course that examines the organization and management of sport including the following areas: finance, law, ethics, facility management, event management, media relations, high school sports, collegiate sports, and recreational sports. Students will become familiar with career opportunities within the sport management field. Open only to freshmen, sophomores, and juniors, or by permission of the program coordinator.	College of Health	Kinesiology	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
SPTA	402	Event and Facility Management in Sport		X	Develops a student's understanding and knowledge of the competencies necessary to execute sporting events and manage sports facilities through theory and application. Topics covered include conceptualizing, planning, managing, and evaluating events. Students will plan and implement an event for students and the community. Prerequisite: SPTA 190 Min Grade: C-. Open only to sport administration majors with full acceptance status. Also open to Sport Administration Minor with permission of the Sport Administration program coordinator.	College of Health	Kinesiology	UG
SPTA	470	International and Comparative Administration of Sport		X	An investigation of the nature and role of the sport industry of different world regions. Includes an analysis of selected national systems, international and comparative sport management, and international sporting events in order to better manage the growing diversity in U.S. sport organizations due to growing migration of athletes, coaches, and professionals. Prerequisite: SPTA 190 and permission of the program coordinator. Open only to sport administration majors with full acceptance status. Also open to Sport Administration Minor with permission of the Sport Administration program coordinator.	College of Health	Kinesiology	UG
SPTA	619	Sport Facility and Event Administration		X	Affords students the opportunity to study techniques and strategies for successful planning, implementation, and evaluations of events as well as the planning, construction, and maintenance recommendations for sport-related facilities. Students will gain practical experience in creating and conducting an event during the course. Prerequisite: permission of the program coordinator. Open only to kinesiology: sport administration majors.	College of Health	Kinesiology	GR
SPTA	698	Internship in Sport Administration		X	A supervised work and learning experience in the application of sport management knowledge and skills. Internships are to be completed with organizations within the sport industry approved by the program coordinator including professional, collegiate, interscholastic, and amateur organizations. Prerequisite: 12 credits earned (C or better) from the graduate sport administration program (core or approved electives), permission of the program coordinator. Open only to sport administration majors.	College of Health	Kinesiology	GR
TDPT	100	Technology and Society	X		The history, development, production, use, and assessment of technology and an examination of its effects upon resources, individuals, society, and the environment.	Teachers College	Educational Studies	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
TDPT	210	Engineering Principles	X		Examines core concepts and principles of engineering, including constraints, optimization, and predictive analysis. Laboratory experiences emphasize the development of skills required to apply engineering processes. Prerequisite: MATH 111; PHYC 100.	Teachers College	Educational Studies	UG
TDPT	364	Technology Education for the Elementary Grades	X		A laboratory in technology education emphasizing the use of tools, materials, and processes that provide enrichment of the elementary program. Methods of planning and developing individual and group activity units are examined and evaluated.	Teachers College	Educational Studies	UG
TEDU	102	Design Techniques	X		Introduces tools and techniques for developing and communicating technological designs. Experiences include sketching, rendering, mechanical and computer-aided drawing, modeling, and presentation skills. Includes laboratory activities.	Teachers College	Educational Studies	UG
TEDU	635	Implementing Technology Education	X		An activity-based experience that emphasizes the implementation of technology education. Focuses on both classroom and laboratory instruction in the many STEM topics.	Teachers College	Educational Studies	GR
TEDU	638	Implementing Manufacturing Technology Education	X		A study of the concepts and strategies used in teaching manufacturing technology classes (grades 6-12). Emphasizes industrial materials, processes, and management systems; their application to industrial enterprises; and their effects on people and society.	Teachers College	Educational Studies	GR
TEDU	694	Curriculum Development in Technical Education	X		Experiences to support the informed individual and collaborative development of curriculum for technology and engineering education, career and technical education, and STEM integration.	Teachers College	Educational Studies	GR
TEDU	697	Problems in Technology Education	X		Independent study in advanced industrial or professional techniques. Prerequisite: permission of the department chairperson. A total of 3 credits may be earned.	Teachers College	Educational Studies	GR
TEDU	698	Seminar in Technical Education	X		An exploration of current problems, issues in technology and engineering education, career and technical education, and STEM integration.	Teachers College	Educational Studies	GR
THEA	100	Introduction to Theatre	X		A University Core Curriculum course that surveys plays selected from the major periods of dramatic productivity from the ancient Greeks through contemporary times and the historical and social elements that helped to shape them. Introduces students to an understanding and appreciation of the many faces of dramatic creativity. Open only to students not majoring in theatre.	Fine Arts	Theatre and Dance	UG
THEA	104	Script Analysis	X		Introduces the art and practice of theatre by examining a variety of analytical tools useful in analyzing and deriving meaning from any play. Covers theatre from the Neoclassical period to contemporary modern and postmodern plays, exploring significant works as both written scripts and potential performances. Prerequisite: DOTD 103. Open only to majors and minors in theatre or dance.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
THEA	150	Introduction to Theatre Education	X		Explores the theory and practice of teaching theatre in the middle and secondary schools and in alternative programs like professional theatres or museums which feature interpreters. Provides classroom opportunities for beginning theatre students to determine what it means to be a theatre teacher, using creative dramatics tools and applied theatre education mini-lessons to explore the world of the successful theatre educator. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	220	Stagecraft	X		A practical introduction to the fundamentals of the crafts involved in theatre production at the school, college, and community theatre levels. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	221	Technical Direction 1	X		An introduction to the techniques and practices of technical direction for theatrical productions. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	223	Costume Design and Technology 1	X		An introduction to the fundamentals of theatrical costuming with attention given to costume technology and construction. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	224	Costume Form and Materials	X		Exploration of the basic forms, materials, and concepts with emphasis on the three-dimensional human body. Also employs various media to develop experimental concepts and skills.	Fine Arts	Theatre and Dance	UG
THEA	226	Stage Properties	X		The examination of stage properties for theatrical production in many forms and styles. Emphasis is on technical theatre procedures including the analysis, production, and visualization of props within scenic design. Areas of concentration are analysis, research, understanding of materials, exploration of ideas, as well as craftsmanship. Prerequisite: THEA 220; permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	229	Stage Makeup Design and Technology 1	X		An investigation of the principles, techniques, and materials of stage makeup and practical experience in their application. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	234	Introduction to the Singing Actor	X		Designed for beginning musical theatre students and those not already assigned to the musical theatre concentration. Students will gain a basic knowledge of musical concepts, voice development, performance skills, audition techniques, and musical theatre repertoire.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
THEA	236	Singing for the Actor	X		Designed for students in the Acting concentration. Students will gain a basic knowledge of musical concepts, voice development, performance skills, and audition techniques. Open only to Theatre majors with a concentration in Acting.	Fine Arts	Theatre and Dance	UG
THEA	238	Dialects in Performance	X		Foundational intensive course in the understanding and execution of dialects in acting. Open only to BFA Theatre majors with a concentration in acting.	Fine Arts	Theatre and Dance	UG
THEA	291	Theatre Stage Management	X		An introduction to the artistic and organizational work of a stage manager. Emphasizing advanced problem-solving techniques and group organization dynamics along with professional standards for stage management forms, procedures, and protocols. Prerequisite: permission of the department chairperson. Open only to theatre and dance majors.	Fine Arts	Theatre and Dance	UG
THEA	295	Introduction to Teaching Methods for Theatre	X		Theory and practice of teaching theatre in middle and secondary schools. Includes curriculum development, instructional planning, classroom management techniques, methods and strategies of instruction, assessment, and use of instructional aids and activities for the classroom. Prerequisite: THEA 220 and 232.	Fine Arts	Theatre and Dance	UG
THEA	317	Pre-Modern Theatre History to 1700	X		Study of the theatre from its ancient origins up to 1700, with emphasis on the material conditions of theatrical production, dramatic/performance theory, and representative dramatic literature. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	319	Theatre History 2	X		Study of advanced concepts of theatre history through examination of the material conditions of theatrical production, dramatic/performance theory, and representative dramatic literature from a wide variety of eras and nationalities, from origins to present day. Emphasis on advanced research, critical theory, and historical writing. Prerequisite: THEA 317 with a grade of C or better	Fine Arts	Theatre and Dance	UG
THEA	320	Scenic Design and Technology 1	X		A lecture-laboratory class to introduce the fundamentals of scenic design and technology. Emphasizes the development of technique and media competence. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
THEA	322	Theatre of the 21st Century	X		Study of the major works of theatre from 2000 to present, with emphasis on dramatic analysis, production conceits, major practitioners and companies, theory, and journalistic criticism. Preferable for students with junior or senior standing who have completed THEA 317 and THEA 319. Prerequisite: THEA 103 and THEA 104 or enrollment in Minor in New Works for the Stage; permission of the instructor.	Fine Arts	Theatre and Dance	UG
THEA	324	Musical Theatre History	X		Study of musical theatre history from its origins through the 21st century, with emphasis on groundbreaking productions and performances, significant individuals within the field, popular trends, and inherent characteristics of the genre. Prerequisite: permission of the instructor.	Fine Arts	Theatre and Dance	UG
THEA	325	Dramaturgy	X		Dramaturgy introduces students to the various areas of production and new play dramaturgy, using extensive analysis, research, and writing to create a greater understanding of the process of dramaturgy. Prerequisite: THEA 103 AND THEA 104 or enrollment in Minor in New Works for the Stage; permission of the instructor.	Fine Arts	Theatre and Dance	UG
THEA	326	Lighting Design and Technology 1	X		Lecture-laboratory in the basic concepts, materials, hardware, and design principles of stage lighting. Emphasis placed on practical application of concepts and theory. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	327	Sound Design and Technology 1	X		Lecture-laboratory in the basic concepts, materials, hardware, and design principles of sound for the stage. Practical laboratory work in sound implementation for university productions. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	328	Voice Lesson	X		One private half-hour lesson, and 2-hour master class weekly (1 credit) or 60 minutes of lessons and a 4-hour master class weekly (2 credits). Students study musical theatre, Italian and English art song repertoire. Freshmen study contemporary musicals; sophomores study musicals of the 1960s-1980s; juniors/seniors study musical theatre repertoire from the early 1900s-1960s. Prerequisite: studio assignments given by the musical theatre concentration coordinator. A total of 8 credits may be earned, but no more than 2 in any one semester or term. Open only to musical theatre concentration students.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
THEA	329	Costume History	X		Exploration of the historical evolution of western dress from ancient times to the early 20th century, including costume terminology, period fashion, and a development of individual student design abilities. Prerequisite: permission of the instructor.	Fine Arts	Theatre and Dance	UG
THEA	333	Introduction to Voice and Movement	X		Introduction to the principles of movement and fundamentals of vocal and breathing techniques. Focus on assessing individual process and freeing of unnecessary habits in order to prepare for the athletic demands of stage acting. Prerequisite: THEA 232; permission of the department chairperson. Open only to theatre majors.	Fine Arts	Theatre and Dance	UG
THEA	334	Studio 1	X		Building on the alignment and anatomy information introduced in THEA 332, and the movement principles taught in THEA 333, this studio focuses on following physical and emotional impulse and understanding the circles of awareness. Prerequisite: THEA 332; permission of the department chairperson. Open only to theatre majors.	Fine Arts	Theatre and Dance	UG
THEA	335	Studio 2	X		Building on the alignment and anatomy information introduced in THEA 332, and the vocal production techniques taught in THEA 333, this studio focuses on combining vocal efficiency with text, along with additional emphases on the International Phonetic Alphabet and non-regional dialect. Prerequisite: permission of the department chairperson. Open only to theatre majors.	Fine Arts	Theatre and Dance	UG
THEA	340	Playwriting 1	X		Introduction to the art and craft of playwriting. Emphasizes plotting and the use of dramatic language in the writing of effective scenes, culminating in a one-act play. Prerequisite: permission of the instructor. A total of 6 credits may be earned, but no more than 3 in any one semester or term.	Fine Arts	Theatre and Dance	UG
THEA	353	Acting and Directing History	X		History of the major developments in the art of acting and directing from Ancient Greece to present day, including specific movements, theories, practitioners and productions, and the cultural context in which they arose. Prerequisite: THEA 317; permission of the instructor.	Fine Arts	Theatre and Dance	UG
THEA	354	Directing for Young Audiences	X		Study and practice in the art of directing theatrical productions geared towards young audiences. Prerequisite: THEA 251 with grade of C or better. Open only to Teaching Majors in Theatre.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
THEA	371	Singing Actor 1	X		The study of and performance of solo, duet, and small ensemble works for musical theatre. Preparation of roles and scenes will occur, combining the art forms of drama and music with an emphasis on developing, understanding, and incorporating the principles in Acting 1, 2, Basic Musicianship, Movement, and voice lessons. Prerequisite: THEA 274; permission of the department chairperson. Open only to musical theatre majors.	Fine Arts	Theatre and Dance	UG
THEA	372	Singing Actor 2	X		Continuation of THEA 371 with emphasis on advanced repertoire choices, both in singing and acting technique demands. Prerequisite: THEA 371. Open only to musical theatre majors.	Fine Arts	Theatre and Dance	UG
THEA	373	Musical Theatre Scene Study	X		Connects acting and singing studios through the use of libretto scenes and their accompanying duets from multiple periods in musical theatre. Students will understand heightened realism in musical theatre and specify the physical and emotional world of the piece, and will learn how to bridge the gap between the spoken text and songs particular to this genre of performance. Prerequisite: permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	391	Advanced Stage Management	X		Advanced study of all areas of the practice of stage management. Prerequisite: THEA 291.	Fine Arts	Theatre and Dance	UG
THEA	420	Scenic Design and Technology 2	X		Advanced training and experience in scenic design and technology for theatrical productions. Emphasis placed on the techniques and tools a designer utilizes to implement their design. Prerequisite: THEA 320.	Fine Arts	Theatre and Dance	UG
THEA	423	Costume Design and Technology 2	X		Advanced training and experience in costume design and technology for theatrical productions. Emphasis placed on the techniques and tools a designer utilizes to implement their design. Prerequisite: THEA 223.	Fine Arts	Theatre and Dance	UG
THEA	426	Lighting Design and Technology 2	X		Advanced training and experience in lighting design and technology for theatrical productions. Emphasis placed on the techniques and tools a designer utilizes to implement their design. Prerequisite: THEA 326.	Fine Arts	Theatre and Dance	UG
THEA	427	Sound Design and Technology 2	X		Advanced training and experience in sound design and technology for theatrical productions. Emphasis placed on the techniques and tools a designer utilizes to implement their design. Prerequisite: THEA 327.	Fine Arts	Theatre and Dance	UG

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Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
THEA	428	Technical Direction 2	X		Advanced exploration of the techniques and practices of technical direction for theatrical productions. Prerequisite: THEA 221and THEA 225; permission of the department chairperson.	Fine Arts	Theatre and Dance	UG
THEA	429	Stage Makeup Design and Technology 2	X		Advanced training and experience in stage makeup design and technology for theatrical productions. Emphasis placed on the techniques and tools a designer utilizes to implement their design. Prerequisite: THEA 229.	Fine Arts	Theatre and Dance	UG
THEA	435	IDEAs in Theatre	X		IDEAs in Theatre is a revolving topics upper-level dramatic level course covering Inclusion, Diversity, Equity, and Accessibility. The course will be an investigation into plays from a variety of underserved communities. Topics will be proposed by faculty and students and selected by the departmental Curriculum Committee. Prerequisite: DOTD 301 grade of C or better	Fine Arts	Theatre and Dance	UG
THEA	491	Theatre Management	X		Study and practice in box office procedures, house management, publicity, and promotion as related to college, community, and professional theatres. Prerequisite: 9 credits of theatre courses.	Fine Arts	Theatre and Dance	UG
UD	501	Urban Design Studio 1: Sustainable Urban Systems		X	Studio/project-based introduction, fostering the understanding of methods and systems analysis and development that lead to the design of sustainable urban settlements. The interplay of context, culture, design, and performance are highlighted through complex urban design projects. Prerequisite: permission of the MUD program coordinator. A total of 4 credits may be earned, but no more than 2 in any one semester or term. Open only to College of Architecture and Planning students.	Architecture and Planning	Landscape Architecture	GR
UD	503	Urban Design Studio 3: Community-Based Sustainable Design		X	Explores the interpretive dimensions of community, politics, and culture. Encourages critical thinking and studies the relationship of ethics, politics, and development. Sustainability, equity, and justice in urban design will be examined through context-rich community-based projects. Prerequisite: permission of the MUD program coordinator. A total of 4 credits may be earned, but no more than 2 in any one semester or term. Open only to College of Architecture and Planning students.	Architecture and Planning	Landscape Architecture	GR
UD	598	Special Projects in Urban Design	X		Directed elective projects in urban design undertaken by groups or individual students. Prerequisite: graduate status and permission of the MUD program coordinator. A total of 9 credits may be earned, but no more than 3 in any one semester or term.	Architecture and Planning	Landscape Architecture	GR

Ball State University Inventory of Sustainability Courses, 2021-22

AC-1: Academic Courses

Subject	Course	Long Course Title	Includes Sustainability	Sustainability Focused	Course Description	College	Department	Level
UD	601	Urban Design Studio 4: Public Realm Design	X		Focuses on the study of urban, shared spaces in the public realm including public streets and plazas. Students will be engaged in the study and exploration of the principles of public open space design. Methods of planning and designing active people spaces will be examined through site-specific design problems. Prerequisite: permission of the MUD program coordinator. A total of 4 credits may be earned, but no more than 2 in any one semester or term. Open only to College of Architecture and Planning students.	Architecture and Planning	Landscape Architecture	GR
UD	637	Urban Design Topics and Colloquia	X		Various urban design seminars will be offered. Each seminar will explore timely issues related to urban design practice and theory. Degree-seeking students must complete a minimum of 4 credits of urban design topics and colloquia. Prerequisite: permission of the MUD program coordinator. A total of 4 credits may be earned.	Architecture and Planning	Landscape Architecture	GR
UD	640	History of Urban Form	X		The survey of the history of urban form exploring the design of major cities and urban centers. Students will develop an understanding of significant precedent in urban design. Layout of major urban centers will be studied through presentations, readings, and lectures. Physical form and regional influences will be systematically studied. Prerequisite: permission of the MUD program coordinator.	Architecture and Planning	Landscape Architecture	GR
WGS	220	International Women's Issues	X		Introduction to current international women's and gender issues, such as women's/men's roles in work, politics, religion, families, and social movements, with an emphasis on non-Western cultures.	Sciences and Humanities	Women and Gender Studies	UG