

Subject	#	Title	Sust. Course (UG)	Includes Sust. (UG)	Sust. Course (G)	Includes Sust. (G)	Catalog Description
AAA	330	US Africa Relations		1			Examines the historical development of the relationship between the United States and Africa, and the broad range of issues, cultural, economic, political, security and social, that condition and shape the relationship.
AAA	333	Study Abroad-African/African-American Studies - GHANA		1			Of varying focus, the course makes use of the history, culture, and society of a host country in order to highlight disciplinary perspectives in context. To be taught in that country (or countries) as part of an approved study abroad program. By permit only. Credits may vary. Offered as needed. Prerequisites: Specific to course and instructor.
AAA	341	Civil Conflicts in Africa		1			The analysis of the nature and dynamics of both non-violent and violent conflicts - civil wars - in Africa, and the efforts to resolve them. The focus will be on selected case studies of African states. Fulfills one of the Issues/Themes requirements. Offered every year. Credits: 3
AAA	343	Black Feminist Thought		1			Survey of the interdisciplinary field of black feminist studies. Focuses on the history, theoretical approaches, and interventions of black feminist studies through examination of the foundational topics and concerns of the field.
AAA	351	Perspectives on African American Males		1			A critical examination of the socialization, life ways, status, and future of African American males. Historical perspectives, present status, cultural expression and social relationships, empowerment, masculinity, psychosocial development and coping, and the future of African American males.
AAA	490	Career-Service in Community Building		1			Agency experience in the community relating practical training and independent study in a specialized area in African American studies. Maximum of six credits. Nine hours of course preparation and permission of instructor and program coordinator. Offered fall and winter semesters. Credits: 1 to 6
ACC	607	Ethics in Accounting				1	This course covers stakeholder's ethical expectations of accountants, directors and officers, principles of corporate governance, philosophic and practical approaches to making ethical decisions, and an introduction to accountants' regulatory requirements and codes of conduct.
AFN	281	Advocacy in Food and Nutrition	1				This course will provide students with an overview of issues that impact America's nutrition and health status. History of food advocacy as a social movement and evaluation of advocacy activities will be covered. Students will be actively engaged in the development of an advocacy action plan.
AFN	300	Food Protection and Management		1			This course will cover the historical development of food safety as a science, discuss human behavior and microbial issues resulting in food-borne illness, examine the intersection of food safety and food waste, and apply accepted food safety mechanisms (including allergen protection and identification) across various sectors.
AFN	381	Design Thinking in Applied Food and Nutrition		1			Design thinking will be used to provide a solutions-based approach that allows the student to more fully examine difficult nutrition-related issues. The students will seek to understand the user, challenge assumptions, and identify alternative strategies and solutions by working in teams in and outside of the classroom.
AFN	401	Emerging Issues in Food and Nutrition	1				This course will review current issues in the economic, social, ethical, political, legal, technological, and ecological environment and the effect of these on dietetic-related practice. The course will prepare students for practice by discussing how food, nutrition and dietetic practice must adapt to a changing health landscape.
AFN	416	Applied Food and Culinary Science		1			This course studies the scientific principles behind modern culinary techniques, with emphasis on preparation, nutrient quality, and health.
AFN	460	Nutrition Education and Counseling with Vulnerable Populations		1			This course studies the scientific principles behind modern culinary techniques, with emphasis on preparation, nutrient quality, and health.
AFN	495	Applied Food and Nutrition Capstone		1			This course will synthesize concepts from the applied food and nutrition core courses and enable students to write and present professional-quality communications. Through literature review, discussion, and research proposal development, emphasis will be placed on integrating knowledge and methods from other health and science-related disciplines with those from dietetics.
AHS	310	Equity in Healthcare		1			This course provides students with knowledge, skills, and practices regarding equity in healthcare. Students will explore the role and relevance of equity to address health disparities, improving healthcare for our communities, strengthening diversity within the health professions, providing effective cross-cultural communication, and developing health programs that respect and embrace diversity.
AHS	495	Issues in Health Professions		1			An overview of current issues impacting health care and health care delivery locally, nationally, and internationally. Students will be expected to synthesize materials learned in the health professions major core classes and cognates and to write and present professionally styled presentations.

ANT	204	People and Cultures of the World		1			Introduces the discipline of anthropology by examining the diversity of human cultures that have been described by anthropologists over the last 100 years. The principles of anthropology are explained with examples drawn from non-Western culture. Comparisons are drawn with our own. Fulfills one of the Foundation - Social and Behavioral Sciences. Fulfills Cultures World Perspectives.
ANT	215	Origins of Civilization		1			This course examines the consequences of decisions made by our ancestors, the successes and failures of past civilizations, so that we may better understand our own behavior. Development of world civilizations is explored using historic, archaeological and other perspectives that inform us about the past. Fulfills Foundation - Historical Perspectives. Fulfills Cultures - World Perspectives. Offered winter semester. 3 cr.
ANT	308	Field Experience Abroad		1			Of varying focus, the course makes use of the history, culture, and society of a host country in order to highlight disciplinary perspectives in context. To be taught in that country (or countries) as part of an approved study abroad program.
ANT	311	Native Peoples of North America		1			A multifaceted examination of North American Indians and a comparison of that culture with the Americans'. Focus on origin, early history, and present disposition of American Indian populations.
ANT	313	Primate Behavior and Ecology	1				This course is an overview of the behavior of nonhuman primates within an ecological framework. Topics include a survey of living primates, constraints of body size on locomotion and diet, conservation, communication, conflict resolution, and the role of the environment in diet, on reproductive strategies, and in social interaction.
ANT	330	Anthropology of Selected World Areas		1			Current topics and methodology will be examined within one anthropological sub-discipline from the perspective of a particular geographic area. Focus will be on the fundamental question: What does anthropology contribute in terms of our understanding of people and cultures? Students may repeat provided each repeat is for a different area. 3 credits.
ANT	345	Perspectives on Globalization		1			The anthropology of globalization examines the emergence of "globalized local cultures." Students employ the ethnographic approach to understand globalization as the intensification of interconnectedness, in which anthropologists learn that fundamental problems of deep and universal concern to humans everywhere will need to be addressed at local, national, and global levels. Fulfills Cultures - World Perspectives. Part of the Globalization Issue.
ANT	380	Cultural Resource Management		1			A series of courses providing an in-depth study of a problem in anthropology and the methods of investigating it. Various topics of crosscultural interest, such as human evolution, peasant cultures, preliterate societies, kinship pattern, and culture and personality will be examined.
ANT	380	Environmental Archeology	1				A series of courses providing an in-depth study of a problem in anthropology and the methods of investigating it. Various topics of crosscultural interest, such as human evolution, peasant cultures, preliterate societies, kinship pattern, and culture and personality will be examined.
ANT	421	Anthropology of Social Movements		1			This course overviews a wide range of processes and practices related to social movements, and anthropology's central role in expanding the definition of collective resistance beyond the scope of formalized protest (and strategic outcomes) to include and examine everyday forms and lived experience of resistance and dissent. Part of the Human Rights Issue.
ANT	495	SWS Practicing Anthropology		1			Provides students with a broad and comprehensive perspective on the fundamental assumptions and issues in anthropology. Emphasis on the application of anthropological knowledge to solve social problems. Given the diverse dimensions of current trends in anthropology, students will work to establish their particular interests with the field.
ARC	401	Archaeological Theory		1			The history and evolution of archaeology and its theoretical frameworks are examined in a lecture/seminar/discussion format. The role and implications of theory in archaeological practice are explored from its origins to the present, emphasizing processual, post-processual, and contemporary theoretical debate, ethics, and professionalism.
ART	295	Space Studio: Art Installation, Environment, Site		1			Space Studio addresses the creation of site-specific works based in the primary form and experience of space typically referred to as installations. It includes studio considerations of space, site, installation, public art, presentational practices, and the related theoretical discourse within a studio context.
ART	373	Design and Materiality: Objects and Sculpture		1			This primarily hands-on studio course emphasizes material knowledge in relation to functionality, form, and design fundamentals utilized in product development. Material explorations may include metalworking, woodworking, mold making, plastics, fibers, found objects and/or digital processes. Individual and collaborative projects will be informed by student research, experimentation, problem solving, and discussion. Part of the Information, Innovation, and Technology Issue.
ART	392	Curatorial Studio: Art, Exhibitions, Events		1			This course involves the creation of art exhibitions, events, and projects as a studio practice. It explores the presentational and critical aspects of curatorial work and the theoretical discourse specific to such practice within a studio context.
ASL	421	Deaf History and Culture		1			The course gives students opportunities to understand basic concepts of American deaf history, to appreciate the culture of deaf people and to understand social and cultural factors causing diversity in the deaf community and in identity choice.

BIO	104	Biology for the 21st Century		1		Introductory course for nonscience majors designed to provide a biological literacy for making informed personal, social, and environmental decisions. Topics include cell biology, genetics and biotechnology, form and function of the human body, evolution and ecology. Does not count toward a biology major or minor. Fulfills Foundation - Life Sciences with a Lab. Offered every semester. 4 cr.
BIO	105	Environmental Science	1			Study of natural ecosystems, their interrelationships, and human impacts and evolution of humans and environmental determinants of their cultures. Land use, resource and energy utilization, population trends and causative factors, air and water pollution, and economic factors influencing decision-making are emphasized. Does not count toward a biology major or minor. Fulfills Foundation - Life Sciences. Fulfills one of the Issues/Themes requirements. (3-0-0) Offered every semester.
BIO	107	Great Lakes and Other Water Resources		1		A study of our region's water resources, including the Great Lakes, streams, and groundwater, and relationships of people with these systems. Does not count toward a biology major or minor. Designated lecture and laboratory sections are tailored for prospective elementary teachers. Fulfills Foundation - Life Sciences with a Lab. (3-0-3) Offered fall semester. 4 cr.
BIO	109	Plants in the World	1			A nonmajors course that looks at the ways plants are used by humans as foods, flavorings, fibers, medicines, building materials, etc. Topics include biotechnology, environmental issues, and population issues. Fulfills Foundations - Life Sciences with a lab. (3-0-2) Offered fall and winter semesters. Credits: 4
BIO	180	Careers in Biology	1			Readings, lecture, discussions, lab, or field experience (or any combination) on careers in biology.
BIO	210	Evolutionary Biology		1		Principles and mechanisms of the evolution of living organisms. Provides an understanding of evolutionary biology as the foundational underpinning of all of biology.
BIO	215	General Ecology		1		Population, communities, and ecosystems, including primary productivity and energy flow, materials cycling, succession, population dynamics, and systems modeling. (3-0-3) Offered fall and summer semesters. Prerequisites: BIO 120 and 12 college credits; (BIO 121 recommended). 4 cr.
BIO	230	Introduction to Wildland Fire Management		1		This course provides students with a basic introduction to wildland and prescribed fire ecology, behavior, and management. This is required training for all personnel seeking to become wildland firefighters under National Wildfire Coordinating Group (NWCG) certification standards. NWCG certifications S-130, S-190, and L-180 are granted upon successful course completion.
BIO	243	Plant Identification and Natural History	1			Examines the plants of West Michigan with emphasis on identification skills and natural history of the plants and communities in which they occur. Offered spring/summer semester. Prerequisite: BIO 121. Credits: 3
BIO	280	Gaaganoondiwig-dibaa		1		This seminar-based class focused on Indigenous science and knowledge will include 6-7 speakers that center Native/Indigenous Ways of Knowing. The course will include a 1-hr seminar one week, followed by a guided activity for student reflection the following week. The objectives of the course are, as follows: to create inclusive course content that centers Native/Indigenous science and improves science education at GVSU; and, to encourage expansion of disciplinary perspectives through guided student activities that result in generation of tools/products that students use in their specific disciplines (ex. adaptive management plans, multidisciplinary reports, drawings, lesson plans, poems, etc).
BIO	303	Plant Morphology		1		Principles and mechanisms of the evolution of living organisms. Provides an understanding of evolutionary biology as the foundational underpinning of all of biology.
BIO	308	Wildlife Ecology		1		This course provides an introduction to wildlife ecology including population ecology as it relates to wildlife management and conservation.
BIO	309	Plants and Human Health	1			Examination of plants and fungi that are sources of medicines, herbal remedies, or are a regular part of people's diets and have been found to have specific health benefits. Only one of BIO 309, BIO 311, BIO 329, or BIO 349 may be counted toward a biology major or minor. Part of the Health Issue. Course offered fall and winter semesters. Prerequisites: Junior standing and completion of the Life Sciences general education category. Credits: 3
BIO	313	Plants and Islands		1		Explores the various roles of plants in island systems and their evolutionary histories and adaptations to these unique environments. This course has a required multiday field study in a coastal or international island setting.
BIO	319	Global Agricultural Sustainability	1			Study of the biological and environmental principles at the foundation of agricultural sustainability; how various traditional and modern agricultural practices follow those principles and how social, cultural, and economic factors ultimately control agricultural practices. Cohesiveness with other courses in this theme will be maintained by highlighting a specific geographical region. (3-0-0) Offered fall and winter semester. Prerequisite: Completion of the General Education Life Science Requirement. 3 cr.
BIO	323	Aquatic and Wetland Plants		1		Examines the plants and algae of the major aquatic habitats of the Great Lakes region with emphasis on taxonomy and ecology. Offered fall semester. Prerequisite: BIO 121. Credits: 3
BIO	328	Biomedical Ethics		1		Examination of ethical dilemmas encountered in medicine and biomedical research, with an emphasis on obligations of health care workers to their patients. Biology majors may not use both BIO 328 and BIO 338 as elective credit within the major. Part of the Health Issue. (3-0-0) Offered fall, winter, and summer semesters. Prerequisites: Junior standing. 3 cr.

BIO	333	Systematic Botany		1		Principles and methods of taxonomy of vascular plants.
BIO	338	Environmental Ethics	1			Examines philosophical underpinnings of environmental ethics. Explores approaches for understanding sustainability issues, solving ongoing environmental problems, and developing a global environmental ethic. Biology majors may not use both BIO 328 and BIO 338 as elective credit within the major. Part of the Sustainability Issue.
BIO	352	Animal Behavior		1		Behavior of invertebrates and vertebrates with emphasis on adaptive significance. (2-0-3) Offered winter semester. Prerequisites: Two courses in biology or psychology or permission of instructor. Credits: 3
BIO	357	Environmental Microbiology		1		An introduction to microbiology emphasizing the role of microorganisms in the environment. Surveys microbial lifestyles and the roles of microorganisms in food, water, soil, and industrial microbiology, and in nutrient recycling and energy flow.
BIO	362	Biology and Diversity of Fishes		1		Study of the anatomy, morphology, and classification of fishes and their biology, ecology, and evolution. Emphasis on species native to the Great Lakes region. (3-0-3) Offered fall semester. Prerequisite: BIO 121; BIO 120 is recommended. 4 cr.
BIO	370	Marine Biology		1		An exploration into the function, biodiversity and ecology of life in the ocean - the largest of Earth's ecosystems. Marine biology will emphasize principles and processes that underlie and unify vastly different marine communities through ecological and evolutionary perspectives.
BIO	380	Racism and Conservation Movement	1			Readings, lecture, discussions, lab, or field experience (or any combination) on racism and the conservation movement.
BIO	380	Wildland Fire Conference		1		Class meets at the Fort Custer Training, Augusta, Michigan.
BIO	386	Ecological Restoration Management	1			This course will introduce students to ecological restoration and examines the practical methods and techniques used in ecosystem restoration and management.
BIO	402	Aquatic Insects		1		Advanced study of taxonomic diversity and ecology of aquatic insects, with emphasis on the fauna of local lakes and streams. The role of aquatic insects in stream function and bio-assessment will be emphasized. Students will gain expertise in the scientific collection, curation and identification of aquatic insects.
BIO	403	Plant Structure and Function		1		Anatomy and physiology of plants, including interrelationships of structure and function in growth, flowering, seed germination, photosynthesis, respiration, water relations, and mineral nutrition. (3-0-2) Offered winter semester. Prerequisites: BIO 120 and BIO 121 and CHM 231 or CHM 241. Credits: 4
BIO	407	Biology and Society	1			Biological topics related to biodiversity, sustainability, alternative energy, environmental policy and economics, land use, climate change, historical influences, and cultural/societal attitudes conducted within an international context. The society-based experience is combined with readings, lectures, papers, and discussions.
BIO	408	Wildlife Management	1			An examination of techniques used in the management, research, and conservation of wildlife species. Introduces the fundamental concepts of wildlife management, including wildlife habitat requirements, evaluation of habitat suitability, interpretation of data analysis techniques, and applied techniques of habitat and population management. Offered fall semester. Prerequisite: BIO/NRM 308. 4 cr.
BIO	412	Mammology		1		A survey of the class mammalia. Topics will include mammalian evolution, zoogeography, ecology, physiology, natural history, and behavior with emphasis on Michigan mammals. Students will gain practical experience in the techniques of field study, identification, and preservation of mammal specimens.
BIO	413	Freshwater Algae		1		Detailed study of the freshwater algae of the Great Lakes region. Topics will include the morphology, ecology, physiology, and evolutionary relationships of the major groups. Methods of collection will also be presented, and considerable emphasis given to identification of the regional flora.
BIO	417	International Field Biology		1		One to three week trips to international locations to study the fauna, flora, ecology of representative ecosystems, climate, geology, paleobiology, environmental problems, and/or human impacts upon the above. The field-based experience is combined with readings, lectures, papers, and discussions. A maximum of six credits from BIO 417 & BIO 418 combined may be applied to the elective credit requirements for the Biology or NRM major. BIO 417 does not satisfy the plant or animal biology requirements but may be repeated for credit. Offered fall, winter, and spring/summer semesters. Prerequisites:
BIO	418	Regional Field Biology		1		One to three week trips to U.S. regional locations to study the fauna, flora, ecology of representative ecosystems, climate, geology, paleobiology, environmental problems, and/or human impacts upon the previously listed. The field based experience is combined with readings, lectures, papers, and discussions.
BIO	423	Plant Biotechnology		1		Study of plant development and its control by hormones, environment and genome, and introduction to current techniques and topics in plant biotechnology, such as another culture, protoplast preparation and fusion, embryogenesis, organogenesis, genetic transformation, and developmental mutants.
BIO	433	Plant Ecology	1			Exploration of plant adaptations and environmental processes governing species distribution and demography, community richness and structure, and ecosystem processes.
BIO	440	Limnology		1		Ecology of lakes and streams with emphasis on the physical, chemical, and biological factors affecting their productivity.

BIO	444	Herpetology		1			An overview of the biology and global diversity of amphibians and reptiles. Topics include amphibian and reptile evolution, morphology, physiology, ecology, behavior, and conservation. Students will gain field experience and learn to identify amphibians and reptiles, with emphasis on Michigan species.
BIO	451	Stream Ecology		1			Examines the structure and function of stream ecosystems, with emphasis on the physical, chemical, and biological factors that influence flowing-water habitats. Laboratory focuses on the methods of stream ecology, including collection and analysis of physical, chemical, and biological data. Field work emphasizes local stream ecosystems.
BIO	460	Terrestrial Ecosystem Ecology		1			Investigation of the structure and function of terrestrial ecosystems using a systems approach. Biotic and abiotic processes controlling interactions among biogeochemical cycles in ecosystems will be discussed and examined. Topics will include controls on primary production, evapotranspiration, decomposition, and herbivory; and potential for anthropogenic changes in ecosystem processes.
BIO	470	Conservation Biology	1				Theoretical concepts and research applications in the multidisciplinary and applied science of maintaining the planet's biodiversity at the genetic, species, and ecosystem levels. Topics include distribution, functions, and value of biodiversity; causes and consequences of biodiversity loss; conservation solutions; and social, political, legal, ethical, and economic aspects of biodiversity conservation.
BIO	570	Landscape Ecology Theory and Applications				1	Landscape ecology explores the influence of landscape patterns on ecological processes. Topics include landscape patterns, dynamics, and heterogeneity; issues of scale; and spatial analysis. Students will examine various applications of landscape ecology concepts through discussions of peer-reviewed journal articles, computer-based assignments, and project work. Offered fall semester. Prerequisite: Graduate standing or permission of instructor. 3.000 Credit hours
BIO	573	Ecology and Evolution of Plant-Animal Interactions				1	An examination of the evolution and ecology of plant-animal interactions, focusing on herbivory, pollination, fruit and seed dispersal in both natural and agroecosystems. Course consists of lectures, presentations, and discussions of the primary literature.
BIO	593	Advanced Univariate Methods				1	This course focuses on experimental design in biology, with an emphasis on interpretation of quantitative approaches, communication of quantitative outputs, and the ultimate structuring of experimentation that results in testable hypotheses using univariate tools, such as regression. Concepts are introduced through discussion of sampling regimes and scientific articles.
BIO	610	Scientific Methodology				1	Contemporary skills of biological scientists including hypothesis development, experimental control, data management, critical interpretation of data, project organization and monitoring, collaborative work habits, and effective communication. Skills will be built as students' progress through case studies of landmark biological experiments, critiquing the primary literature, and creating their own scientific proposal.
BIO	651	Emerging Issues in Water Resources			1		The most pressing water resource-related issues facing the planet today will be discussed and analyzed. Particular emphasis will be placed on analyzing these problems from a variety of perspectives, including environmental, economic, societal, and political.
BIO	698	Perspectives in Biology				1	This graduate Capstone course provides an integrated examination of the contemporary biological sciences in the context of students' graduate theses, projects, or internship works. The course includes a discussion of scientific ethics, emphasizes the critical evaluation of scientific literature, and further develops students' scientific and professional writing and presentation skills
BMS	100	Human Health and Disease		1			Presents the basic terminology and concepts of medicine and health maintenance for non-science students. Emphasis is on the interaction of technical concepts of health and disease with the political, economic, legal, and ethical aspects of American society. Fulfills Foundation - Life Sciences. Offered fall, winter and occasionally summer semesters. Three credits.
BMS	105	Basic Nutrition		1			Investigation of the bases of nutrition, from a scientific and social-psychological viewpoint. Problems of malnutrition, food as a social phenomenon, and current controversies in nutrition will be discussed. Offered fall, winter, and occasionally summer semesters. Three credits.
BMS	212	Introductory Microbiology		1			An introduction to the fundamental principles and techniques of bacteriology, immunology, and virology. Emphasis on the morphology, genetics, and physiology of microorganisms producing human disease and the human response to these agents.
BMS	223	Public Health Concepts		1			An introduction to the strategies and tactics, both past and present, for the control and eradication of infectious and chronic diseases of humans. Offered winter semester. Three credits. Fulfills one of the Issues/Themes requirements.
BMS	304	Community Nutrition		1			This course will cover the field of community nutrition characteristics, purpose, and job opportunities. It will also discuss the following: the methods used to assess a group or community's nutritional status; the tools to evaluate community intervention programs; the cultural diversity found in the community; and the implications of such diversity for health professionals. Offered Winter Semester. Prerequisite: BMS 105 and Junior standing. Three credits.

BMS	306	Advanced Human Nutrition		1			An in-depth examination of the biochemical and physiological functions of nutrients and their relationships to health and disease. The digestion, absorption, and transport of nutrients are discussed. The integrated regulation of metabolism at the physiological, cellular, and molecular levels in response to altered nutritional and hormonal status is emphasized.
BMS	495	Concepts in Wellness		1			This biomedical sciences course will synthesize the materials students have learned from the biomedical sciences core and cognate courses and enable them to write and present professionally styled communications to an audience of their peers and instructors.
BUS	201	Legal Environment for Business		1			The legal, regulatory, and ethical environment in which business operates is explored, with emphasis on the regulation of business, international law, environmental law, ethics, the political and social factors influencing case and statutory law, contracts, employment law, and business organizations. Offered every semester. 3 cr.
BUS	301	International Business and Culture		1			Explores how business is done in a country or region, and how culture influences business and its environment. Reviews country's history, economics, politics, government, arts or education. Explores how business practices may differ from U.S. practices. To be taught in that country as part of a study abroad program. Fulfills Cultures - World Perspectives.
BUS	505	Implementing Principles of Strategic Leadership				1	Examines strategic planning and decision-making frameworks to understand how to best implement strategy and influence the strategic direction of an organization. Provides a consulting experience to apply business knowledge acquired in previous courses to pre-identified strategic problems faced by organizations.
BUS	677	Business Ethical Problems & Perspectives				1	The study of ethical problems commonly encountered in modern global business environments. Students will study the ethical issues of character, leadership, decision making, organizational governance and social responsibility.
BUS	634	Sustainability Principles & Practices			1		This course, which carries 1.5 credit hours, provides an introduction to, and analysis of, the fundamental theories, concepts, principles, and practices of "sustainability" in the global society in which we live. Students analyze and apply theories to real-world scenarios, including to their current employers and work assignments.
CAP	220	Fundamentals in PR		1			(Restricted to Advertising and Public Relations majors and minors). Basic principles covering the role of public relations in society, public relations principles and their application, procedures for planning and implementing public relations campaigns the identification of publics and the strategies for influencing them. Course offered every semester. Prerequisites: CAP 105, CAP 115, and WRT 150 with grade of C (not C-) or better. 3.000 Credit hours
CAP	320	Public Relations Management and Cases		1			The public relations function viewed from the management, consultant, and employee positions through use of text material and case studies. Offered fall and winter semesters. Prerequisites: CAP 220. 3.000 Credit hours
CAP	423	Corporate Communications Writing		1			An advanced writing course on the research, development, and preparation of corporate communications. Uses desktop publishing. Includes brochures, annual reports, employee newsletters, executive speeches, position papers, backgrounders, corporate memos, customer letters, and crisis communications. Offered fall and winter semesters. 3.000 Credit hours
CAP	495	Ad and PR Campaigns		1			Planning and presentation of a response to an advertising/public relations problem or objective of an actual organization. Includes liaison with the client organization throughout the semester and presentation to the client at the conclusion of the semester's work. Offered fall and winter semesters. Prerequisites: CAP 310 or CAP 320; senior standing. 3.000 Credit hours
CD	516	Food and Culinary Science				1	This course provides content related to the operation and management of therapeutic food service systems. Experiential and didactic learning will equip the student to better understand the role of palatable food production and service in clinical
CD	520	Supervised Practice: Food Management Systems				1	This course provides hands-on experiential learning in a variety of food service delivery systems. Students will rotate through several different food systems during this class including acute care, long-term care, schools, or community feeding programs.
CD	530	Supervised Practice: Community Nutrition			1		This course provides experiential learning in a variety of community settings such as gleaning and food recycling, community health centers, food hubs and pantries, WIC, health departments, and other community programs with a nutrition component
CD	550	Food, Culture, and the Health Environment			1		The purpose of this course is to expose students directly to the role of food in culture, society, environment, and economy through readings and hands-on engagement with world foods and food issues as they pertain to clinical dietetics. Course offered fall semester. Prerequisite: Admission to the clinical dietetics program.
CHM	102	Chemistry and Society		1			A survey of some of the many ways in which chemistry is involved with people's day-to-day existence.
CHM	111	Introduction to Green Chemistry	1				Green Chemistry, also known as sustainable chemistry, is the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances. The course presents basic concepts of green chemistry and engineering. It is not applicable for chemistry majors or minors. Fulfills Foundation - Physical Sciences. 3 cr.
CHM	427	Green and Environment Chemistry Laboratory	1				Students are exposed to the methods used in environmental chemistry analysis and the application of green chemistry principles, benign design, life cycle analysis through experimental design, practical aspects of environmental, and human health issues. A solid understanding of methodology used in environmental laboratories and application of green chemistry is attained.

CHM	421	Green Chemistry for Sustainable Environment	1				Practical aspects of environmental and health issues are discussed following the principles of green chemistry. Environmental chemistry methods, application of green chemistry, benign design, and lifecycle analysis, through experimental design secure fundamental understanding of methodologies used in environmental laboratories and applications of green chemistry.
CHM	442	Synthetic Polymers: Life Cycle and Emerging Sustainable Technologies		1			Synthetic and analytical approaches to polymer and materials development using the principles of green chemistry. Coverage of how chemists incorporate principles of green chemistry and sustainable technologies into their workflow to assess the life cycles of polymers and materials.
CHM	475	Electrochemistry	1				This course introduces the basic concepts of electrochemistry. Course content builds upon chemical reactivity to include electron transfer and electromotive force. Topics focus on electroanalytical methods, energy storage electrochemistry, and chemical/electrical energy conversion. Applications to advanced energy systems will also be discussed.
CHM	480	Application of Environmental Chemistry		1			Students are exposed to methods of environmental chemistry, applications of green chemistry, and advanced techniques in organic synthesis. Topics include benign design, life cycle analysis through experimental design, practical aspects of environmental and human health issues, and the synthesis and characterization of organic compounds. Solid understanding of methodology used in environmental and synthesis labs and the practical application of green chemistry is attained.
CIS	101	Thriving in our Digital World					Computing technology has a profound influence in our society. Students work together to use technology for creative expression, write computer programs to solve problems, use digital tools to make meaning from vast amounts of information and to understand how the Internet supports modern communication.
CIS	290	Professional Responsibilities and Practice		1			History of the computing profession. Local and global impacts of computing technology on individuals, organizations, and society. Professional ethics and responsibilities. Personal privacy, security, and legal issues. Preparation for an internship in the computing field.
CJ	101	Justice and Society		1			This introduction to the study of crime and justice includes theories and methodologies from a variety of social science disciplines. The course also provides an introduction to the study of social control and to the origins of crime at individual, structural, and cultural levels. Fulfills Foundations - Social and Behavioral Sciences.
CJ	282	Culture, Crime, and Justice		1			An exploration of the relationships between culture, crime, and justice that seeks to increase students' cultural competence in relation to the administration of justice and the justice professions.
CJ	305	Constitutional Rights and Civil Liberties		1			Survey of the nature and extent of protection of civil liberties and civil rights of the accused under the U.S. Constitution through examination of landmark Supreme Court decisions.
CJ	325	Criminal Justice and Human Rights		1			A comparative study of criminal justice in relation to past, current, and emerging human rights claims, violations, protections and enforcement locally, regionally, nationally, and internationally. Part of the Human Rights Issue.
CJ	350	Juvenile Justice Process		1			An analysis of the historical and philosophical foundations of the juvenile justice process and system. Special attention is given to legal and administrative issues, reforms, and controversies.
CJ	370	Environmental Crime and Justice	1				This course examines environmental crime, the laws designed to prevent and/or mitigate it, enforcement of those laws, and the relationship between race, class, and exposure to environmental harm around the world.
CJ	380	Mod Slavery: Human Trafficking		1			Drawing on interdisciplinary approaches to globalization, the course critically examines the forced and/or coercive global transfer of people, the traffic and trafficking of humans, through historical and contemporary perspectives. Topics may include migrant smuggling, forced labor, slave trade, sex workers, voices of survival workers, and self-advocacy in survival communities. Part of the Globalization Issue.
CJ	495	Issues in Criminal Justice (Capstone)		1			A Capstone course that will entail readings and discussion on contemporary criminal justice issues, ethics, and trends resulting in a senior paper/project.
CJ	592	Social Justice Issues in the American Criminal Justice System				1	This course examines contemporary social justice issues and their intersection with the American criminal justice system.
CLA	231	Health and Science in Antiquity		1			An introduction to ancient Greek and Roman medical and other scientific practices in their cultural and historical contexts, as well as their modern influence. Topics include the human body and its relationship to its environment, theories of causality, and early astronomy.
CMB	140	Living Foods: Ferment them Yourself		1			An introduction to fermentation as food preparation. For thousands of years, people have used fermentation to preserve food. The history, food preservation and safety aspects, and the science of fermentation related to food and health are covered. The laboratory includes hands-on fermentations such as breads, yogurt, kefir, sauerkraut, and kombucha.
CMB	150	Biotechnology and Society		1			An introduction to biotechnology, focuses on its application in, and impacts on, our society. Scientific, ethical, economic, legal social and historical aspects of biotechnology will be covered. Class discussions and laboratory investigations of current topics including cloning, agricultural biotechnology, genetically modified foods, stem cells, and medical biotechnology highlight the course. Fulfills Foundations - Life Sciences with a lab.

CMB	321	Designing Our Future: Babies, Food, Medicine, and Biotechnology		1			Issues course which introduces the concepts and theories of biotechnology, and includes an in-depth exploration of a biotechnology issue, such as designer babies, GMO food, and personalized medicine, within a group setting. Student groups will create a white paper and lead a discussion on the biotechnology issue of their choice. Part of the Information, Innovation, or Technology Issue
CMB	350	Foundations of Brewing		1			Introduction to history, culture, theory and practice of brewing. Students design and brew a beer of choice. Implications of beer consumption on social, psychological and biological health are emphasized. Effects of human migration, technological advances, economics, culture and globalization on beer production are also addressed. Part of the Health Issue.
CMB	485	Molecular Ecology		1			This course provides an in-depth exploration of the integrative field of molecular ecology which uses molecular genetic tools to study ecology and evolution. Concepts/theories are introduced in lecture and through discussion of scientific literature. Hands-on experience with analysis of genetic data is provided in computer laboratories.
COM	303	Debate		1			Instruction in techniques of argumentation and debate. Research methodology, logical analysis and argumentation, rhetorical strategies, technique of public presentation.
COM	372	Global Communications		1			A global focus on the relationship between media and society. The nature of global media in a world community. Varieties of media technologies, contents, and effects. How media encourage cross-cultural unity, or increase tensions within and between nations.
COM	378	Intercultural Communication		1			This course introduces students to the ways culture, communication, and identity influence one another. Students will learn about the theories, traditions, new technologies and societal structures which nuance and shape our intercultural experiences in domestic and global contexts. Course topics may include race, language, national identity, gender, sexuality, religion.
COM	410	Senior Seminar in Health Communication		1			This course serves as a bridge between the student's academic and professional careers. The course helps students synthesize their communication education into a view of the dominant themes, issues and trends of the health communication field.
COM	438	Communication Ethics		1			An upper-division course for the study of communications ethics. Students explore how language and innocence are mutually exclusive, examine how rhetoric, ideology, and information bear upon social and personal evil, and consider ethics issues relating specifically to communicative media. Focus is directed to the assessment and development of ethical sense-making.
COM	490	Internship		1			A supervised work experience in an area of a student's potential career interest. Initiated by the student, who plans the work experience with the advisor, the faculty sponsor chosen to supervise the internship, and the supervisor at the worksite.
COM	495	Issues in Communication		1			Selected communications theories are examined in the context of contemporary issues/questions. Seminar-style analysis and application of concepts based on readings selected to support discussions about one or more current critical issues in communication.
COM	634	Ethics in Professional Communication				1	An examination of ethical issues and problems in professional communication. Special attention is given to understanding the connections between the communication industry and society, government, economics, and the law.
DS	360	Ethics of Digital Culture		1			This course will investigate the ethical concepts emerging alongside digital innovation. Students will explore topics such as (but not limited to) social media, issues of privacy and security, cyber warfare, virtual representation, and internet access, plagiarism, and sustainability. Offered fall and winter semesters. Credits: 3
ECO	100	Current Economic Issues		1			Examination of current social issues from an economic perspective, such as drugs, rent control, environmental pollution, poverty, crime, and the distribution of medical care. Recommended for students interested in current issues. Students with any economics course at ECO 200 and above cannot take this course for credit. Fulfills one of the Foundation - Social and Behavioral Sciences.
ECO	210	Introductory Macroeconomics	1				Introduction to the study of the national and global economies. Topics include the effects of government taxation and budget deficits on economic growth; ways to alleviate unemployment, inflation and international trade imbalances, and the importance of expectations and decision-making in an uncertain world. Fulfills one of the Foundation - Social and Behavioral Sciences.
ECO	313	Business Cycles and Growth		1			Topics include analysis of economic fluctuations and their impact on corporations and consumers; different explanations for business cycles; monetary and fiscal policy for stabilizing economic fluctuations; effects of public debt, investment, employment, and trade policy on economic growth.



ECO	336	Urban & Real Estate Economics		1			Applies economic models and methods for understanding urban real estate markets. Topics include urbanization and urban growth; determinants of land rents and urban spatial structure; characteristics and determinants of real estate markets; location choice; transportation, poverty, crime, and education in cities; relationship between real estate markets and business cycles.
ECO	345	Environmental and Resource Economics	1				Develops a systematic economic framework to analyze market and government allocations of natural and environmental resources. Topics include relationships between population growth, land development, and environmental quality; regulatory versus market oriented environmental policies; supplies and prices of mineral and energy resources; harvest and protection of forests and fisheries. Part of the Sustainability Issue.
ECO	349	Emerging Markets Issues		1			Emerging Markets Issues. Important problems in emerging markets throughout the world, such as: policies to stimulate growth via international trade; foreign aid and multinational investment in transitional economics; the use of natural resources and agriculture in economic development; and the relationship of economic development to education, health and migration. Fulfills Cultures - World Perspectives.
ECO	350	Gender and Economics		1			Analysis of gender differences in employment and earnings. Topics include allocation of time between the household and the labor market, employment and family structure, theories of discrimination, antipoverty programs, comparable worth, parental leave, and affirmative action. Historical trends and cross-cultural comparisons are discussed along with current U.S. conditions.
ECO	369	International Economic Issues		1			Selected topics in both international trade and international finance. Includes preferential trading arrangements such as NAFTA and the European Union; analysis of barriers to trade and arguments for and against protectionism; the influence of exchange rates on capital flows; and the relationship between international trade and economic growth. Fulfills Cultures - World Perspectives.
ECO	380	Health Economics		1			Application of microeconomic tools to health and medical care issues. Topics include demand for health care, economic choices of medical care providers, insurance markets, economic justification for government involvement in the medical care system, various proposals for health care reform in the U.S. and different health care systems in the world. Part of the Health Issue.
ECO	385	GIS in Urban and Regional Analysis	1				Focus on applications of Geographic Information Systems (GIS) techniques in urban and regional analysis. Using a hands-on approach, students will explore how to use GIS techniques and large data sets to analyze economic, demographic and social change in the knowledge-based economy. Part of the Information, Innovation, and Technology Issue.
ECO	435	Urban Economics		1			Topics include the urbanization process, the city as an economic system, location analysis, poverty, housing, pollution, transportation, and public finance. Fulfills one of the Issues/Themes requirements.
ECO	440	Public Economics and Ethics		1			The provision of goods and services in the public sector, government decision-making, and fair and efficient taxation will be analyzed in light of the interaction between ethics and economics.
ECO	643	Health Economics				1	This course employs economic tools to understand issues related to health care. Students will learn how to evaluate cost-benefit analysis, assess cost effectiveness, and interpret regression analysis. Microeconomic issues include resource allocation, production efficiencies, market structure, and industry performance. Macroeconomic issues include national policy equity, and health care reform.
EDF	100	Teaching and Learning in Diverse Schools		1			Designed to acquaint students with teaching and culture of schools through a 25-hour field experience. Students will learn fundamental instructional principles, engage in one-on-one academic support, and write/discuss their experiences. General knowledge of public schools and the foundations of American education will be addressed through readings and discussions.
EDF	315	Diverse Perspectives on Education		1			This course will introduce the historical, philosophical, and sociological foundations of education in the United States. Emphasis will be placed on the changing purposes of education historically, the legal and procedural expansion of schooling to an increasingly diverse student population, and the cultural competencies needed to teach all students effectively. Fulfills Cultures - U.S. Diversity. Offered every semester. 3 cr
EDF	325	Learning from Detroit: Education and Community Revitalization	1				This course studies community revitalization efforts in the city of Detroit. Focusing on community-based initiatives that are strengthening neighborhoods, improving schools, and fostering the well-being of children, families, and neighborhoods in Detroit, this course invites students with diverse perspectives, from across content areas. The class includes two visits to Detroit. Part of the Identity Issue.
EDF	675	Cultural and Educational Foundations of Ecological Issues				1	The learner will develop an understanding of the intimate connection between social justice, environmental issues, and education through examination of the historical and philosophical foundations of Western culture and education and how these may undermine or enhance sustainable and equitable relations between humans and other living systems.
EDF	676	Introduction to Place Based Education				1	Place-based education is the process of using the local community and environment as the basis for curriculum and learning. This course will assist students in understanding the fundamental principles and practices of place-based education that nurture academic skills, strong ties to community, civic engagement, local-global connections, and sustainable practices.

EDF	677	Citizenship, Activism, and Community Problem-Solving			1		Academic concepts learned in previous courses will be applied to address concrete social and environmental problems in real-world community contexts. Students will collaborate with community organizations, place-based education programs, or other initiatives to utilize their knowledge and skills in working with others to address issues specific to their place.
EDI	633	Teaching Social Studies and Diversity				1	Emphasizes instructional methods for teaching and integrating social studies, economics, history, civics, geography, and diversity in elementary and middle schools. Focus is on problem solving, critical thinking, and democratic citizenship with strategies for valuing people with differences in learning styles, race, class, culture, gender, and disability.
EDH	656	Organization and Administration in Higher Education				1	Theory and models of organizational structure, administrative behavior, funding, governance, and management of higher education; processes and factors influencing institutional decision-making and higher education planning.
EDR	317	Class Conscious		1			Challenges students to think critically, collaborate, and integrate multiple disciplines as they explore the role that popular culture and schooling play in forming their identities. Students will use critical reading skills to analyze films, television, music, and other aspects of popular culture and compare to prominent theories and their experiences. Part of the Identity Issue.
EDT	312	Children and Technology		1			Focused on the impact technology in its many forms is having on children, ages two through 12, including pre-school uses of technology, as well as incorporation of technology into instruction and assessment. Explores issues related to children's participation in an increasingly digital society within the context of development, education, and society.
EGR	250	Materials Science and Engineering		1			The internal structure, composition, and processing of metals, polymers, and ceramics are related to their properties, end use performance, and application in engineering. Materials selection exercises are included.
EGR	301	Analytical Tools for Product Design		1			Analytic methods in product design are integrated into a coherent design process that includes gathering customer requirements, establishing specifications, generating alternative concepts, estimating feasibility, concept selection, embodiment design, design refinement, prototyping, and project planning.
EGR	306	Urban Sustainability	1				Social, environmental, economic points of view engaged to study how successful cities work. Study approached using assigned reading compared to direct observation and immersion into urban environments. Focus: interaction of built environment with social, natural environment. How engineering decisions about materials used in buildings impact structural integrity, energy use, economics. Offered fall and winter semesters. Part of the Sustainability Issue. Prerequisites: Junior standing, MTH 110
EGR	330	Power Systems Analysis		1			An introductory course on single-phase and poly-phase power systems. Topics include single-phase and poly-phase circuits, balanced and unbalanced systems, DC and AC power transmission and distribution systems, fault analysis and contemporary safety, and social and environmental issues.
EGR	406	Renewable Energy Systems: Structure, Policy, and Analysis	1				A survey of the technological as well as economic, societal, and public policy issues associated with renewable energy systems. Topics include generation using renewable resources such as solar, wind, hydropower, and biomass as well as advanced energy storage systems and distribution. Energy research and analysis techniques are introduced.
EGR	463	Alternative Energy Systems and Applications	1				Introduction to the current issues of energy for sustainability. Principles of alternative and renewable energy sources including solar thermal, solar photovoltaic, wind, hydropower, biomass, geothermal, hydrogen and nuclear energy. Fundamentals of combustion of hydrocarbon fuels and alternative fuels such as biofuels. Fuel cells and electrochemical energy storage units. Offered fall semester. Prerequisites: EGR 360 or PHY 360 or permission of instructor. 4 cr
EGR	466	Turbomachinery		1			Application of energy, momentum, and continuity equations to turbomachinery. Fundamentals of axial and centrifugal compressors/pumps, axial/radial gas turbines, and hydraulic and wind turbines. Mean-line analysis, radial equilibrium, blade geometry, component design, losses, and design parameters.
EGR	513	Materials for Energy Storage				1	Study of the materials for advanced energy storage. Topics include electrochemical reactions, anode and cathode materials, electrolyte materials, electrochemical testing of materials, typical responses of common materials, and life testing. In addition, tradeoffs in material performance are discussed.
EGR	580	Alternative Energy Systems & Applications			1		A study of special topics not regularly covered in the curriculum; this course covers alternative energy systems.
EGR	657	Photovoltaic Systems			1		This course introduces students to the fundamentals of photovoltaic (PV) systems. The topics include solar energy resources, PV system components, physics of PV cells, grid-connected PV systems, stand-alone PV systems, and economic/technical considerations in the design of PV systems.
EMBA	610	Strategic Information Systems for Executives				1	Examines the role of data and information in the management and integration of systems processes. Students will explore strategic and sustainability related implications and the significance of effective management and analysis of internal and external information resources.
EMBA	635	Organizational Change Management				1	Analyzes the forces that drive organizations to change, evaluates the impediments to change, and examines the approaches or models of making change most effective. Special attention is given to managing the individual and organizational disruptions inherent in the change process.

EMBA	636	Emerging Trends: Industry Disruptions and Firm Sustainability				1	Explores current and future trends that are expected to challenge and impact businesses, industries, and society. Students will become better strategic leaders and managers as they examine and better understand the changing business environment. Topics will vary to align with contemporary issues.
EMBA	682	Systems Thinking and Advanced Tactics				1	Deepens student's capacity to simultaneously analyze and consider multiple strategic initiatives. Students learn to frame problems holistically, using judgment to make decisions on multiple (potentially conflicting) perspectives and develop a rigorous and resilient approach to solving complex business issues.
EMBA	683	Corporate Strategy for Executives				1	Examines strategic decision-making with an emphasis on the processes to improve competitiveness and sustainability in complex and uncertain corporate environments. The focus is on exploration of strategic management process models and applications to the unit and organization.
ENG	328	Contemporary American Literature		1			Study of established and emerging authors, literary movements, genres, or themes since 1945. Students will consider questions of what defines "American" through examination of cultural, historical, and political contexts that define U.S.-American contemporary period, e.g., Cold War, 9/11, borderlands/identities, globalization, social justice movements, race.
ENG	382	SWS Nature Writing		1			Focuses on the literature that deals with the relationship between human beings and the natural world. Includes literary non-fiction, nature poetry, environmental fiction, and other forms of literature that illuminate both human and non-human nature. In addition to writing analytical papers, students will try several forms of nature writing. Fulfills one of the Issues/Themes requirements. Offered fall and winter semesters. Prerequisite: WRT 150. 3 cr
ENG	364	Sociolinguistics		1			Study of sociolinguistic theories investigating the interaction of language and society. An examination of the social and cultural aspects of language and language use: social stratification, power, gender, race, ethnicity, class, geographic origins, and networks.
ENG	664	Sociolinguistics and Language Teaching				1	Introduction to major concepts, theories, findings, and research methods in sociolinguistics as they relate to second and foreign language teaching. Topics include language variation and change; standards, attitudes, and ideologies; world Englishes language policy and planning; identity; and socialization. Focus on implications for teaching English in domestic and international contexts.
ENG	670	World Englishes: History and Variation				1	Examination of the external and internal history of the English language from Old English to present day English with emphasis on the development, change, and variation of regional and social varieties of World Englishes. Includes linguistic and textual analyses of corpora, social media, dictionaries, grammars, and other resources.
ENS	180	Special Topics in Environmental Studies	1				Readings, lectures, and/or discussions in specific topics not normally covered by other courses in the program.
ENS	183	Sustainability as a Lifestyle	1				A comprehensive look at sustainability and how students can engage sustainable practices in their lives.
ENS	201	Introduction to Environmental Studies and Sustainability	1				An interdisciplinary exploration of the multiple ways by which human society influences, and is influenced by, its natural environment. Economic, political, and socio-cultural dimensions of environmental studies are presented through and interdisciplinary approach. Principles of sustainability are examined.
ENS	300	Principles of Sustainability	1				An exploration of the history and meaning of concepts of sustainability. Special attention to the challenges of defining the term; its ethical, political, and descriptive meanings; its use in different sustainability models; its "strong" and "weak" versions, and its relation to concepts of development and growth.
ENS	301	Methods for Interdisciplinary Environmental and Sustainability Studies	1				This course introduces students to interdisciplinary scholarly or creative methods that apply to environmental and sustainability studies. Students compare and evaluate data, sources, and findings of selected research in the life sciences, social sciences, and humanities, and prepare their own integrated scholarly or creative proposal, blending methods of distinctive disciplines.
ENS	302	Environmental Justice	1				Environmental justice addresses environmental racism, inequity, and the broad disparities in how environmental benefits and burdens are distributed across communities. This course will provide an overview of the historical, conceptual, and practical dimensions of the environmental justice movement, and of the critical social and political thought at its core.
ENS	303	Introduction to U.S. Environmental Policy	1				This course examines the decision-making processes to cope with modern environmental problems. The course focuses on both domestic and international environmental issues with special attention to interests, ideas, and institutions. Part of the Sustainability Issue.
ENS	305	Sustainability Assessment and Reporting	1				Introduces methods of Sustainability Assessment and Reporting. The course reviews the goals of sustainability initiatives in different types of organizations, and considers how assessment and reporting best practices are determined by type of organization and its sustainability goals. Sustainability professionals present on their use of assessment and reporting frameworks.
ENS	310	How the Biosphere Works	1				A forum for learning about the evolution, dynamics and change in earth's biosphere. Students will collaboratively explore the complex interplay between and among the earth system and humans for better understanding modern-day issues such as global environmental change and sustainability.

ENS	311	To Bee or Not to Bee; Honey Bees and Social Impact	1				This course explores the centuries-old relationship between humans, nature and honey bees from a cultural, historical, and agricultural context. Pillars of our modern food system and bioindicator of our environment, honey bees provide important scientific, economic, philosophical, and political perspectives relevant to our current global climate.
ENS	380	Semester in Detroit	1				The Semester in Detroit mission is to engage undergraduates in substantive, sustained and reciprocal relationships with the people and communities of the City of Detroit. Combining a semester-long residence in the city with rigorous academic study and a comprehensive community-based internship, SID students become deeply involved in – and committed to – the life, challenges, and promise of this important American city.
ENS	392	Sustainable Agriculture: Ideas and Techniques	1				Students will study agricultural systems while being exposed to applied research at the sustainable agriculture project site. Students will investigate models of sustainable food systems that link production to economics, consumption, and nutrition. Part of the Sustainability Issue. Offered fall semester. Prerequisite: Junior standing. Credits: 3
ENS	401	Environmental Problem Solving	1				A problem-solving seminar in Environmental Studies. Attention will be given to vulnerabilities to environmental change, sustainable development, impact and risk assessment, adaptations to and mitigation of environmental problems at various scales. Multidisciplinary student teams will conduct original research and design sustainable practices and solutions for real-life environmental problems. Prerequisites: ENS 201 and junior standing. 3 cr
ENS	412	Global Environmental Change	1				The main theme of this course is the changing nature of our environment and human-environmental interactions. Topics include climatic fluctuations, environmental reconstructions, the interaction between humankind and the environment since
ENS	490	Internship	1				Supervised work experience in an area related to environmental studies.
ENS	491	Practicum	1				Three or more hours a week of applying environmental and sustainability studies principles in a public or community setting. Possibilities include a case study, field involvement, or conference attendance, and will result in a statement evaluating the theory and practice of environmental and sustainability studies.
FIN	330	Ethics in Finance		1			This course relates ethical principles to issues faced by financial professionals in fields such as investment analysis, investment sales, corporate finance and financial institutions. A general background in moral philosophies will be provided.
FIT	119	Outdoor Skills		1			This course provides instruction in knowledge, skill, and application of outdoor pursuits. Students will learn about proper equipment, navigation, fire building, trip planning, hiking, and snowshoeing as the weather permits. This course is conducted a variety of weather conditions and visits parks surrounding the Grand Valley State University campus.
GEO	100	Environmental Geology		1			The relationship between people and their physical geological environment. Topics include geologic hazards, hydrology and human health, mineral and energy resources, and land use planning. Primarily for non-science majors; not for Geology or Earth Science majors. Lectures and field trips.
GEO	103	Oceans		1			Scientific investigation of the oceans and interactions among ocean, atmosphere, and lithosphere. Introduction to the chemistry of seawater, physics of water movement, coastal processes, geological oceanography, changes in the oceanic system through geologic time, and the role of oceans in Earth's geologic evolution.
GEO	105	Living with the Great Lakes		1			Introduction to Earth Science using the Great Lakes as a theme and Lake Michigan as a natural laboratory. Review of the Lakes geologic setting, origin, and history; climatology and lake levels; physical processes including erosion; water chemistry as a function of geology; human interactions with the Lakes. Lectures and field trips. Fulfills Foundation - Physical Sciences.
GEO	111	Exploring the Earth		1			Introduction to the study of Earth materials and processes, including minerals, rocks, mineral deposits, weathering, erosion, volcanism, and mountain building.
GEO	112	Earth History		1			Introduction to major principles of geologic time, inferring the evolution of the solid and liquid Earth through the rock record using conceptual frameworks of sedimentation, stratigraphy, paleontology, and tectonics and developing spatial comprehension through 2-D and 3-D visualization of rock geometries.
GEO	201	The Geosphere for K-8 Pre-Service Teachers		1			A study of those aspects of earth science that are related to the earth's lithosphere. Topics covered include geologic materials geologic time, volcanoes, earthquakes, and plate tectonics. Hands-on investigation of the natural world is emphasized. Course is intended for integrated science majors. Does not count toward a geology major.
GEO	202	Hydrosphere for Teachers		1			Introduction to how the hydrosphere works emphasizing a descriptive approach. Includes river, groundwater, glacial, ocean, and shoreline systems and human interaction with those systems.
GEO	203	Weather and Climate for K-8 Teachers		1			Introduction to how the atmosphere works emphasizing a descriptive approach. Includes daily, seasonal, and long-term changes, weather patterns, and relationships between human activities and the atmosphere.
GEO	214	Solid Earth Materials and Systems		1			Exploration of common rock-forming/economic minerals, igneous/metamorphic rocks comprising the solid earth in the context of evolving earth chemical and plate tectonic systems. Course develops skills and tools for observation, classification, interpretation of minerals and rocks. Lectures, laboratory, and required field trip.
GEO	220	Earth Surface Materials and Systems		1			A comprehensive analysis of biogeochemical, pedological, hydrologic and geological systems that produce, maintain, and change the Earth's surface. Lecture, lab, and fieldwork.

GEO	300	Geology and the Environment		1			Detailed examination of interactions and connections between people and their geologic environment from an Earth Systems perspective. Using case studies and current events, students investigate complex environmental processes and issues related to the lithosphere, hydrosphere, atmosphere, and biosphere. Students will reach and defend decisions concerning personal, corporate, and governmental actions. Fulfills one of the Issues/Themes requirements; not included in the Geology/Earth Science major or minor.
GEO	315	Geologic Field Methods		1			This course provides students repeated practice in field mapping methods. Students will use common tools for field location, effectively making and recording field observations and creating and compiling accurate products (maps, cross-sections, stratigraphic sections) and reports.
GEO	320	Geomorphology		1			The patterns and genesis of landforms with emphasis on fluvial processes, climatic factors, and environmental implications. Independent study project or research paper required. Lectures, laboratory, and field trips.
GEO	360	Earth Resources in Transition: Conventional to Sustainable	1				Exploration of transition from conventional to sustainable earth resource issues, technologies, and science. Focuses on one, or a combination, of earth resources: water, energy, or earth materials (minerals and metals). Topics may include water resources, treatment and usage; oil and gas origins, exploration, recovery, and refining; mining and metals recovery.
GEO	425	GIS in Geology		1			Applied geographic information systems (GIS) in geology. Students already familiar with GIS will learn advanced skills and apply GIS skills to specific geology problems in hydrology, field mapping, mineral and land resources, water quality, and other topics based on student interest and background.
GEO	430	Oceanography		1			A comprehensive analysis of oceanographic processes, systems, and the interaction of the ocean with the atmosphere and lithosphere in the modern world, as well as over geological time (paleoceanography). Emphasis on chemical, physical, and geological oceanography
GEO	440	Geohydrology		1			A study of the geologic principles that govern the occurrence, movement, and quality of groundwater. Lectures, laboratory, and field trip.
GEO	445	Introduction to Geochemistry		1			Topics include crystal chemistry (nuclear/solid-state chemistry), water geochemistry (kinetics) and mineral stability (thermodynamics).
GPY	100	Physical Geography	1				Explores the spatial patterns between landforms, natural systems of flora and fauna, and climate. Designed to increase awareness of the physical environment, its landscape, controls, and processes, and the interrelationships of natural phenomena.
GPY	101	Sustainability and Place	1				The concept of sustainability holds that the social, economic, and environmental factors within human communities must be viewed in the context of their geographic locations. Strategies and decisions for sustainable development require
GPY	111	Cities, Towns, and Villages	1				An investigation into cities, towns, and villages as physical phenomena, focusing on the role built environments play in the future of human civilization. Methods and theories from sustainability science are used to examine the relationship between
GPY	112	Global Climate Crisis	1				An introductory geographic survey of climate change impacts and vulnerabilities around the world. Attention will be given to causes of the unfolding global climate crisis, climate change scenarios through the end of this century, and mitigation,
GPY	200	Computer Cartography		1			This course provides an introduction to the fundamentals of computer cartography. We explore various techniques for the analysis, manipulation, and visualization of spatial data. Topics include earth models, datums, map projection, coordinate systems, map types, spatial and statistical data analysis, cartographic generalization/symbolization, data classification, cartographic design, and thematic mapping.
GPY	209	Intro to Urban and Regional Planning	1				An introductory course for people interested in planning, sustainability, public administration, and community development. The course critically explores the practice of urban and regional development, the various barriers to effective practice, and
GPY	220	Cultural Georaphy		1			The distinctive spatial patterns of culture around the world will be investigated. Examines the distributions of population, language, religion, race, agriculture, industry, urbanization, and development and how these distributions change over time.
GPY	235	Geography for a Changing Worls	1				A survey of geography followed by an examination of specific geographic concepts. Physical, cultural, economic, and related factors will be given more emphasis than place-name geography. Fulfills Foundation - Social and Behavioral Sciences. Fulfills Cultures - World Perspectives. Offered every semester.
GPY	307	Intro to GIS		1			Introduces basic concepts and techniques of Geographic Information Systems (GIS) and their essential role in geographic research. Provides hands-on experience in spatial analysis and the use of GIS software.
GPY	312	Urban and Regional Enviromental Planning	1				An introduction to the urban planning strategies that help towns and cities preserve, restore, and even capitalize on their natural resources. This course investigates threats to clean air, water, and healthy ecosystems in our communities and examines solutions in the form of governmental policies, green designs, and urban inventiveness.
GPY	314	Land Use Planning	1				This course centers on the fundamental concepts, principles, strategies, and tools of urban and regional land use planning. The focus is on the real-world, local, and hands-on sustainable land use planning process and implementation.

GPY	316	Intro to Transportation Planning	1				This course is an introduction to transportation planning. It explores the planning, land use, and policy implications of city and regional transportation as it relates to urbanism, energy use, public health and safety, sustainability, and economic development.
GPY	335	Globalization and Development	1				Development involves positive and negative social, political, economic, cultural, and environmental changes for people living in a region or a country.
GPY	345	The Geography and Land Use Management of the Great Lakes Area	1				A survey of Michigan's physical resources, such as climate, soils, hydrology, and flora as related to land use and land use management, exemplified in settlement patterns, demography, economic development, infrastructures, industrialization, urbanization, and jurisdictional structures. Offered fall semester. Credits: 3
GPY	350	Geopolitics, Energy, and Environment of Russia and Central Eurasia	1				This course examines the unique role of Russia and Central Eurasia in the world's energy, water, and food security and many global geopolitical processes of the 21st century. With its complex ethno-cultural composition and vast deposits of oil, gas, coal, and uranium, this region is strategically important for the U.S.
GPY	351	Geography of Africa	1				Africa is one of the most fascinating world regions yet paradoxically one of the least known. The focus of this course is on the rich cultural (language, religion, agriculture, cities, health, economy) and physical (climate, vegetation, landforms) geographies of this vast region and how they have changed over time. Fulfills Cultures - Global Perspectives.
GPY	352	Geography of Latin America	1				The growth and development of Latin America has a significant impact on most activities in North America. Examines those effects and studies the cultural and physical development of Latin America. Fulfills Cultures - Global Perspectives.
GPY	353	Geography of the United States and Canada		1			A comparative study of the cultural and physical geographies of primarily the United States' population, cultural diversity, migration, resources, and economy, with those of Canada. Fulfills Cultures - U.S. Diversity.
GPY	354	Geography and Globalization of Asia	1				Introduction and survey of the physical and cultural geographies of Asia, their influence on the globalization of Asian economies, and the migration of Asian peoples. Part of the Globalization Issue.
GPY	355	Geography of South West Asia		1			Introduction to physical and cultural geography of Southwest Asia and North Africa. Fulfills Cultures - Global Perspectives.
GPY	356	The Geography, Culture and Land Use Management of Europe	1				A survey of Europe's distribution and regional interactions of physical and human resources such as climate, soils, hydrology, and coastal geomorphology, along with cultural elements such as settlement patterns, language, ideology, economic development, infrastructure evolution, industrialization, urbanization, human capital, and jurisdictional developments and the associated land use management approaches. Fulfills Cultures - Global Perspectives.
GPY	362	A Geography of World Agriculture and Farmers		1			A geography of the world's agricultural practices and development at different scales, from traditional methods to industrial agriculture with an emphasis on farming societies. Topics include indigenous agriculture and crop domestication, agroforestry and plantation systems, land use and rural societies, export crops, aquaculture and livestock, and drug cultivation. Fulfills Cultures - World Perspectives. Part of Globalization Issue.
GPY	363	World Forests and Their Use		1			A geography of the world's forests and their use, from traditional to industrial practices over space and time. Topics include the local, national and international exploitation of forests, forest societies, foods, fuel and medicines, timber, protected areas, and the challenge of sustainable forest use in different regions and environments. Fulfills one of the Issues/Themes requirements.
GPY	381	Sustainable Urban and Regional Planning in the Netherlands	1				Of varying focus, the course makes use of the history, culture, and society of a host country in order to highlight disciplinary perspectives in context. To be taught in that country (or countries) as part of an approved study abroad program.
GPY	410	Landscape Analysis and Green Infrastructure	1				Landscape analysis is a broadly interdisciplinary study that includes concepts and methods of sustainable physical/human geography, ecology, planning, and architecture. It includes the biophysical and societal causes and consequences of landscape heterogeneity, processes and evolution. Conceptual and theoretical core of this course links natural sciences with related human disciplines.
GPY	412	Global Environmental Change	1				The main theme of this course is the changing nature of our environment and human-environmental interactions. Topics include climatic fluctuations, environmental reconstructions, the interaction between humankind and the environment since the prehistoric times, and human-induced environmental change of the last century at the global, continental and regional scales.
GPY	470	Digital Image Processing		1			Provides theory and applications of digital image processing techniques. Focuses on the methodologies of thematic extraction of environmental information using computer-based image processing systems and interface between GIS and remote sensing. Topics include image enhancement, multispectral classification algorithms, and model development.
GSI	215	Global Migration		1			An interdisciplinary analysis of the global movement of immigrants and refugees and its relationship with the economy, politics, development, and culture. Students learn about migration as a key feature of globalization. Possible topics: migration history, immigration policies, border control, integration, citizenship, migrant transnationalism, diaspora, remittances, child migrants, and migration theories.
GSI	290	Changemakers! Intro to Social Impact		1			This course gives a broad overview of global and local, formal and informal initiatives that are meant to tackle urgent issues such as poverty alleviation, gender equality, education, access to water, etc. It teaches basic skills to design interventions, measures the success/failure of initiatives, and develop advocacy for social change.

GSI	365	Global Climate Justice	1			Examines climate change through questions of history, power, and justice. Considers how global cultural and economic systems shape our approach to the climate crisis. Utilizes the humanities, social sciences, and journalism. Issues discussed may include climate anxiety, indigenous peoples' movements, climate refugees, fossil fuel industry, policy, climate in popular culture.
GSI	490	Global Studies Internship		1		The global studies and social impact (GSI) internship places GSI majors with an organization that addresses global issues in fields such as immigration, the environment, public health, business, or media. Enables students to apply GSI theoretical knowledge to professional contexts.
GSI	495	Global Studies and Social Impact		1		A culminating course for global studies and social impact majors and a venue for producing an original interdisciplinary research project. Taught in a seminar format, students will select, share, and discuss readings relevant to their research topics and finish with oral and written versions of their research
HNR	151-154	Culture, Power, and Inequality		1		Why do the three richest people in the U.S. have as much wealth as the poorest half of the population? Why is sexual assault so widespread even though it is illegal? If race does not matter, why are black women more likely to die of breast cancer than white women? In a time when gay marriage is legal in the U.S., why is the existence of transgender bathrooms deemed dangerous? What are the sources of power and powerlessness in societies? We explore these questions by addressing the social and cultural systems that shape our opportunities and behavior even when we are not aware of them. We will investigate some pressing current topics, such as global income inequality, social injustice and oppression, environmental racism, unequal access to healthcare, the uncertain effects of digital technology on our world, and other issues of power and inequality. We will also explore how people unite to resist the corrosive effects of systemic inequality and oppression through political participation, protest, online activism, creative expression, and other forms of collective action. We will examine these issues of inequality and protest in the U.S. and around the world. Students will have the opportunity to explore some of these issues through small, independent research projects based on their specific interests both inside and outside the classroom. Students will gain experience with writing-to-learn and writing-for-mastery assignments as well as guided revisions of their writing. Classroom activities will include lecture, discussion, student presentations, multi-media activities, and field trips
HNR	151-154	Design Thinking	1			In Design Thinking for Social Product Innovation, you will be immersing yourself in a dynamic class that is centered around the idea of creativity. Design Thinking for Social Product Innovation is a mouth full, and you will learn nearly all the inner workings of it. The class periods will never be the same and there will always be something unexpected. The professors will guide you step by step through brainstorming techniques and components of prototyping. Whether it is bringing trash into class or going on hikes in the ravines, the class is an experience that you will never forget. It is all about developing ideas, rethinking the normal and coming up with different ways of production, hence the Design Thinking and Product Innovation. You will be surprised how much you do not know about the world around you and you will also learn that you have the resources to develop something amazing. It is not just about meeting deadlines and finishing projects, it is about immersing yourself in a class that will teach you the importance of the world, struggle of people in different countries, and the ability that you must change it. There is a heavy focus on the UN Sustainability Goals which are goals developed to help some of the poorest countries in the world. Targeting developing countries in ways of sanitation, clean water or no poverty plus investigating creative innovations is something this class utilizes to improve the lives of others.
HNR	151-154	The Making of Meaning		1		This sequence explores how humans come to claim knowledge about the world. We will look at how scientific and philosophical knowledge is produced, how scientific consensus is obtained, and how these things are communicated to the public at large. The sequence also investigates how culture helps to shape discourse about scientific and philosophical knowledge and how claims to truth are used by experts, policy makers, businesses, journalists, and the public. The first half of the sequence looks at the production of knowledge claims using the example of evolution, altruism, and theories of human nature. The second half focuses on challenges associated with communicating, valuation, and advocacy using the example of environmental and conservation science.
HNR	151-154	The Sound of Ethics		1		Is listening easy? Is it the kind of thing we are good at because, like speech, we've been doing it all our lives? How do listening skills impact our ability to speak, write, and read effectively? And what does effective listening have to do with thriving in school, work, friendship, and love? In this sequence, we approach listening as a process that begins long before we communicate and impacts virtually every aspect of our public and private lives. Beginning with ancient Greek and African philosophies and drawing from multiple academic disciplines, we explore the conceptual differences between hearing and listening in the context of both pluralistic societies and multicultural organizations. Through readings, discussions, essays, and group projects, we explore hearing as a function, and listening as an ethic—and ultimately a highly valued leadership competency.

HNR	151-154	Water in a Changing World	1			Water is life. It shapes where we live, how we live, and if we live. Water is fundamental to many of the activities and actions we engage in both as individuals and as communities. Is safe water a human right that all people on earth should enjoy? Why do 2.1 billion people on this planet lack access to safe water in their homes? What cultural context informs our decisions about water in the United States and globally? This interdisciplinary course will explore these questions through books, articles, class discussions, guest speakers, field trips, and hands-on activities. We will take a deep dive into the science and social implications of contemporary water challenges and issues using tools, data, and perspectives from biology, geology, and cultural anthropology. We will explore contemporary water-related challenges such as lead, mercury, and PFAs in drinking water supplies; water use and allocation in the Great Lakes Watershed; and balancing competing values in the restoration of the Grand River and other waterways. The course will provide many opportunities to engage with your peers in open-ended problem solving and discussion of a range of water issues within their social and cultural context. We will explore water issues in developing nations such as Haiti, Ghana, and Ecuador. As we explore global water issues we will provide diverse viewpoints, perspectives, and opportunities for exploring how our own cultural context may impact our views of complicated water-related issues within the United States and international.
HNR	151-154	American Voices and Visions		1		"Make It New!" the poet Ezra Pound declared. American art, literature, and theatre shocked, challenged, and enthralled the world in the twentieth century. This course will examine major artists, playwrights, and authors whose work expressed this American passion for the new as we explore the social, economic, and political conditions that influenced and inspired these creators. Class material will be brought to life through vigorous discussions, interactive experiences, and low-risk performance opportunities. With special attention to the evolving understandings of "youth" woven throughout twentieth century artistic and creative movements, we will emphasize how these voices and visions challenged, extended, enhanced, complicated, and even undercut what it means to be an American.
HNR	251	Inequality by the Numbers		1		It is widely recognized that inequalities based on class, race, gender, and sexuality have intensified in recent years. This course explores cutting edge statistical research on traditionally-recognized and newly discovered forms of inequality. The course will help students develop skills in understanding, interpreting, and applying statistical data as well as conceptualizing social inequality from distinct perspectives. Additionally, students will complete a substantial group project focused on a specific form of inequality and policies designed to address it. They will publicly present their results in either an oral presentation or a poster at the class's completion. The course utilizes interdisciplinary scholarship on inequalities from economics, sociology, public health, demography, urban studies, environmental studies, and gender/sexuality studies. Course topics may include analyses of growing income and wealth inequality; how educational institutions reproduce and intensify inequalities based on class and race; the effects of employment discrimination based on gender, race, sexual identity and/or physical appearance; unequal access to housing and credit based on race and sexual orientation; unequal health outcomes based on race (e.g. risk of exposure and death from covid, incidence of chronic disease like asthma, lead exposure, and infant mortality); as well as the gender based wage gap and the effects of sexual harassment on health and career outcomes. Students completing the class will have a deeper understanding of the causes and consequences of inequality and enhanced skills in quantitative literacy.
HNR	201	Live. Learn. Lead		1		Structured around a series of campus/community lectures, exhibits, or other events, this course exposes students to learning outside the classroom and provides the opportunity to think deeply and critically about those experiences, and to derive meaning from them. Students will learn to engage in and participate thoughtfully in public dialogues.
HNR	235	SWS Democracy & Pol Thinking		1		Course explores the idea of democracy and its alternatives, with a focus on citizen participation, political judgment, and basic values of freedom, equality, and tolerance. The course pays special attention to the possibilities of and obstacles to student participation in politics, including the student's role in campus government. Fulfills one of the Foundation - Social and Behavioral Sciences.
HNR	241	The Earth, A Global View		1		Course has two objectives: (1) understanding Earth as one global, holistic, delicately balanced dynamic system; and (2) understanding the critical interdependence between humans and Earth systems. Required field trip. Fulfills Foundation - Physical Sciences with a Lab. See University Honors College.
HNR	242	Plants and People		1		Plants are the dominant organisms on the landscape and are often taken for granted. The ecology, structure, function, genetics, and variety of plants are studied in order to develop an appreciation of the dependence of humans upon them for food, oxygen, shelter, medicines, and pleasure. Fulfills Foundation - Life Sciences with a Lab.
HNR	251	The Healing Power of Plants		1		From early time, man has recognized that plants have the power to heal and sustain life. Plants remain the first resort cure for 80% of the global population. This course will explore the various roles medicinal and poisonous plants hold in various cultures. Medicinal and aromatic plants (herbs and spices) have gained consumer interest worldwide. Poisonous plants contain toxic chemical compounds which can adversely affect the health of humans and animals. However, some poisonous plants can be utilized as medicines and as natural insecticides. Poisonous plants also play a key role in distorting the eventual harmful effects of pesticides.



HNR	251	Our Evolving World		1			This course explores the mechanisms of biological evolution and their application to improve human welfare. In this course you will learn about: (1) major events in the history of life on earth; (2) the evolutionary processes that have generated organismal and ecological complexity; and (3) how principles of evolution are used to conserve biodiversity and manage and the ecosystems on which we depend, domesticate animals and plants, and improve our own health and lifespan. You will also apply the lens of biological evolution to understand and contribute to solution of environmental and social issues through student-designed investigations.
HNR	264	Theory & Practice of Rights II		1			This is the second of a three-part foundational interdisciplinary sequence on the theory and practice of rights in the United States and around the globe. It examines debates about the meaning of human rights and their value for addressing injustices in western and nonwestern contexts. Fulfills one of the Foundation - Social and Behavioral Sciences.
HNR	265	Theory & Practice of Rights III		1			This is the third of a three-part honors foundational interdisciplinary sequence on the theory and practice of rights in the United States and around the globe. It explores the experience of and resistance to human rights violations in particular cultural contexts. Fulfills one of the Foundation - Social and Behavioral Sciences. Fulfills Cultures - World Perspectives.
HNR	311	SWS Prob Solving-Sustain Sols	1				An intensive, in-depth study of a special problem or topic. The seminar, taken in the junior or senior year, is a Capstone for the liberal arts component of the student's education. It provides an occasion for considering the ways in which liberal arts disciplines impinge upon each other. Fulfills Cultures - World Perspectives.
HNR	313	Design Thinking		1			An intensive, in-depth study of a special problem or topic. The seminar, taken in the junior or senior year, is a capstone for the liberal arts and sciences component of the student's education. It provides an occasion for considering the ways in which liberal arts and sciences disciplines impinge upon each other. Fulfills one of the Issues requirements.
HNR	350	Food, Culture and Conscience		1			If we are lucky, most of us eat every day. However, the regularity of our encounters with food may cover up many of the ways that our food practices reflect our personal, religious, scientific, and philosophical beliefs and also our historical and environmental setting. We will look at a variety of contemporary and historical sources to investigate the ways we eat, prepare, and talk about food. We will look at recipes, cookbooks, and food reviews to investigate the methods and difficulties of talking about the taste and judgment we exercise in eating and preparing food. We will explore the nature of American cuisine and some of the great variety of food traditions in the US. Also, we will consider the ethical implications of what we eat – exploring arguments for and against eating animal products and attempts to influence people to eat healthier foods.
HNR	350	Leadership and Problem Solving		1			A study of various historic and current leadership theories and concepts as well as innovative leaders past and present. An examination of effective leadership skills, innovative approaches to leadership, creative problem solving and how to bring ideas to action. There will be a focus on personal leadership development with students developing a deeper understanding of their own leadership values and philosophy, personal strengths and areas for growth. Classes combine lectures, discussions, group activities, self-assessments, guest speakers and audiovisual materials.
HPE	207	Personal Health and Wellness		1			Provides students with the knowledge, skills, and ability to assess personal health status and reduce risk behaviors. Social and behavioral models facilitating physical activity, health, and wellness are explored. Students will analyze physical, social, emotional, spiritual, intellectual, and environmental wellness.
HPE	260	Methods of Teaching Outdoor Pursuits		1			This course will prepare prospective teachers with the knowledge, skills, and competencies necessary to teach a variety of outdoor pursuits to PK-12 students. Topics may include navigation, survival skills, rock climbing, fishing, and snowshoeing. Cooperative learning and outdoor education curricular models will be featured throughout this course.
HRT	316	Human Rights in International Politics		1			An analysis of human rights as an increasingly influential principle in international relations, and the friction between sovereignty and international standards of behavior. Topics covered within class may include the theoretical origins of human rights, international norms, international law, sovereignty, interventionism, particularly viewed through historical and contemporary human rights cases.
HSC	202	The Technological Revolution		1			How has technology evolved? Why has it changed? With what consequences? This course examines the development of technological systems from the 1700s to the 2000s by considering their influence on the cultural values of everyday people, their economic and environmental effects, and their shaping of our current technological society.
HST	101	Intro to World Civilizations		1			This course examines the long-term trajectory of world history. Taking a global approach, students think beyond national boundaries and consider themes that bind disparate regions together, such as trade, migration, the environment, state formation, and imperialism. Fulfills Foundations - Historical Analysis. Fulfills Cultures - Global Perspectives.
HST	202	History of Global Change and Social Transformation		1			A historical inquiry into long-term processes of global change and social transformation. Focus is on increasing interconnectedness of human communities from the deep past to the present, including spread of cultural, market and ecological exchanges, transport and communication technologies, developing ideas of social justice, and their connections to contemporary times. Fulfills Foundations - Historical Perspectives. Fulfills Cultures - Global Perspectives. Cross-listed with GSI 202. Offered fall and winter semesters. Credits: 3

HST	203	World History to 1500 A.D.		1			Basic content and methods of history through an introductory study of world cultures before 1500. The course focuses on specific societies in Africa, Asia, Europe, and the Western Hemisphere, analyzing and comparing the ways in which political, economic, social, cultural, and demographic factors influenced the development of these various cultures. Required for majors. Fulfills Foundations - Historical Perspectives. Fulfills Cultures - Global Perspectives. Supplemental writing skills course.
HST	305	America Confronts Modernity		1			Analysis of topics in the Gilded Age and progressive era. Topics may include the modernization of technology, agriculture, and industry; urbanization; immigration; labor relations; international trade; military ventures; race relations at home and abroad; Progressivism and Populism; and the 1920s.
HST	310	Cultural and Social Topics in Nonwestern History		1			Examines various topics in non-Western cultural and social history. Course explores a specific topic defined by the instructor.
HST	316	U.S. Civil Rights Movement History		1			This course will focus on United States civil rights leaders and their rhetoric of resistance, and focus on the social and cultural formations that undermined racial segregation. It will also examine the events and forces that created space for a successful movement.
HST	319	Human Traffic and Trafficking		1			Drawing on interdisciplinary approaches to globalization, the course critically examines the forced and/or coercive global transfer of people, the traffic and trafficking of humans, through historical and contemporary perspectives. Topics may include migrant smuggling, forced labor, slave trade, sex workers, voices of survival workers, and self-advocacy in survival communities. Part of the Globalization Issue.
HST	320	American Indians		1			An examination of selected topics and peoples from among the diverse Native American peoples north of Mexico, from the mythic beginnings to the modern era. Topics include problems of writing Indian history, ethnohistory, Indian-white relations, environmentalism, survival, assimilation, and Indian perspectives on American history.
HST	327	History of United States Urban Society		1			A historical analysis of American urban structures including the commercial city, the industrial city, the suburbs, and the edge city. These structures will be seen as metaphorical theatrical stages upon which ethnic, racial, gender, and economic groups create social and cultural formations.
HST	329	US Intellectual History		1			Examines the major trends in American thought from the colonial period to the present. Examples of topics covered include evangelicalism, republicanism, the transcendentalists, feminism, the impact of Darwin and science on social thought, race, pragmatism, modernist criticism, liberalism, conservatism, and postmodern critical theory.
HST	370	History of Medicine and Health		1			Interdisciplinary exploration of the diverse ways that western societies from Ancient Greece to the modern era have defined health and disease, provided health care, managed the environment, and sought to prevent illness. Examines the strengths and limits of past solutions to health questions and their applicability to modern society.
HTM	175	International Food and Culture		1			An exploration of world cultures via an examination of foods, focusing each semester on a different international cuisine. Demonstrates the ways in which intellectual, social, religious, political, economic, and geographic factors affect the development of regional cuisines. Exploration of culture and tastings of the region's food and beverages are included.
HTM	201	Good Food Gone Bad		1			This course covers food safety best practices in food production, manufacturing, and preparation to different situational contexts, such as: agriculture, food recovery projects, and commercial and/or charitable food distribution sites.
HTM	202	International Tourism		1			Introduction to international tourism focusing on the socio-economic effects of international tourism along with the inherent public-private interaction. International tourism is more than a set of industries, but rather an activity that encompasses human behavior, uses of resources (public and private), and interaction with other people, economies, and environments. Fulfills Cultures - World Perspectives. Offered fall semester. Prerequisites: HTM 101 suggested. 3 cr
HTM	217	Cannabis and Culture		1			This course examines the cultivation, supply, and use of cannabis throughout history. It discusses cannabis prohibition in the U.S. and the impact legalized cannabis has had upon popular culture, socio-political issues, and social and restorative justice. It also examines the development of a legitimized cannabis industry, along with hospitality infusions.
HTM	235	Tourism and Recreation Management		1			An introduction to the dynamic domestic (U.S.) tourism and recreation / leisure industries, focusing on their strong linkages to both non profit and for profit oriented providers. Emphasis is given to entrepreneurship, economic development, sustainability, career opportunities, and the management of organizations.
HTM	250	Food Production and Management		1			The application of managerial practices and processes to food preparation, production, safety, and sanitation.
HTM	268	Adventure Tourism		1			An introductory course exploring the rapidly growing and diverse market for activity-based tourism. This class reviews the provision, management, and philosophy of outdoor activities and controlled adventure as well as identifying the motives and characteristics of the adventure traveler.

HTM	275	Culinary Tourism		1			Engages learners in the process of understanding the rich and complex food traditions of the United States of America and how an understanding of these traditions contributes to the management of culinary tourism programs.
HTM	317	Responsible Cannabis Management		1			Cannabis retail managers must demonstrate responsibility to customers, employees, regulatory bodies, and local communities. This course examines demands made of contemporary cannabis retail managers. Particular attention paid to best practices for navigating regulations, liability and social concerns, product knowledge, controls/operations, security issues and responsible cannabis service.
HTM	323	Festival and Special Event Management		1			This introductory course is a comprehensive overview of the theory and procedures associated with managing festivals and special events. The role of marketing and communication, environmental planning, creation of event strategies, governmental involvement, and entrepreneurial perspectives of event management are augmented with experiential learning in a real-time regional festival or special event.
HTM	368	Geotourism	1				A study of geotourism, tourism that sustains or enhances the geographic character of a place. Topics include: community development, land use and planning, conservation of resources, tourist satisfaction and marketing, with the purpose of sustaining or enhancing the environment, culture, aesthetics, heritage, and the well-being of a places residents. Part of the Sustainability Issue.
HTM	333	Hospitality Facilities Management	1				The management of the hospitality facility with emphasis on preventive maintenance, energy, sustainability, and security.
HTM	402	Tourism Policy Issues		1			This course provides a comprehensive overview of the theories of tourism development as well as an analytical approach to worldwide development issues. The roles of stakeholders are evaluated and there is a focus throughout on the applied theoretical discussions regarding development and sustainable management of tourism destinations and attractions.
HTM	422	Advanced Lodging Management		1			This advanced course in lodging management builds on fundamentals acquired in prior lodging curriculum and field internship experience. Utilizing a community-based learning format, central components include multiple unit property management, franchising, budgeting and labor, environmental design, risk management, and leadership theory.
IDS	180	Dialogue Across Different Interdisciplinary Studies		1			This is an interdisciplinary special topics course. Focus will vary by semester and instructor.
IDS	183	Sustainability as a Lifestyle	1				This course will provide a broad and comprehensive perspective of sustainability practices. Students will be introduced to the fundamentals of sustainability through lectures, readings, field study activities, and guest speakers. The emphasis of this course will be on helping students incorporate sustainability practices in their lifestyle and experience at GVSU.
IDS	350	Civil Discourse		1			This topical course familiarizes students with communication tools of civil discourse. Students analyze the role of discourse in solving social problems and learn dialogic strategies for constructively engaging with diverse perspectives. Using the civil discourse skills of reasoning and respect, students collaborate with people of divergent views.
ITC	100	Introduction to Intercultural Competence		1			This course introduces students to the concept of cultural competence, and provides them with the knowledge and application of skills necessary to succeed in diverse settings. This course examines theories of intercultural engagement and then requires students to consider how they might apply knowledge in diverse practical settings. Fulfills Cultures - U.S. Diversity.
ITC	490	Practicum: Intercultural Learning Experience		1			The course is an application of intercultural principles in a public or community setting. Students will engage in both cohort learning activities as well as individual experiential placements. Students on qualifying semester study abroad programs can complete the practicum concurrently with participation in the cohort. Offered fall and winter semester. Prerequisite: ITC 100, and filing of application for certificate in Intercultural Competence. 3 cr
ITC	495	Culminating Seminar in Intercultural Competence		1			This is the culminating course required for completion of the Intercultural Competence Certificate. Students identify issues of cultural conflict in their communities or academic disciplines, and develop plans for how these issues might be addressed through cultural understanding or training. Offered winter semester. 3 cr
IDS	399	Idependent Readings		1			Hours, credit, topics, and time to be arranged with the individual faculty members with approval of the department.
INT	201	Diversity in the United States		1			Explores how the intersections of race, ethnicity, gender, sexual orientation, class, religion and physical abilities affect the material lives and media representations of various cultural groups in the United States. Engages historical and current debates regarding issues of immigration, meritocracy, segregation, the economy, the environment, and identity. Fulfills one of the Foundation - Social and Behavioral Sciences. Fulfills Cultures - U.S. Diversity.
INT	310	Creativity and Innovative Problem Solving		1			An interdisciplinary study of those ideas that stimulate the creative processes and innovation in information and technology in a diversity of human practices, including, but not limited to, artistic, philosophical, scientific, and entrepreneurial endeavors, with a focus on practicing innovativeness and creativity in a variety of areas.
INT	322	Wicked Problems of Sustainability	1				Sustainability, as a wicked problem, is an intractable, on-going and high-stakes issue. This course engages students in participatory research on the inextricably linked dimensions of sustainability, such as economics, environment and social equity. Students will work with community partners to address specific interdisciplinary problems of sustainability.

INT	323	Design Thinking	1				Design Thinking is an iterative, project-based, problem-solving process valued in organizations both locally and internationally. As interdisciplinary teams, students in this course will use the Design Thinking process to better facilitate the chaos of innovation by collaborating with stakeholders to meet real world needs. Part of the Information, Innovation, and Technology Issue.
INT	330	The Idea of Nature		1			A historical and cross-cultural examination of how nature has been interpreted by science, philosophy, religion, literature, and art. Fulfills one of the Issues/Themes requirements.
INT	341	Leadership for Social Change		1			An examination of the theory and practice of leadership in social change movements, focused on developing personal and organizational capacities for leadership in a liberal education context. Students identify a contemporary social issue and create an action plan for resolution, addressing that issue with at least one action step. Part of the Information, Innovation, and Technology Issue.
INT	342	Food Matters	1				This course offers an interdisciplinary exploration of the relationship between food systems and food we consume every day. Analysis of competing information and integration of evolutionary, historical, socio-political, cultural and environmental factors shaping our current food systems lead back to the basics of nutrition, agricultural practices and equitable food systems.
INT	380	Anishinaabek Lifeways	1				This course will introduce the history of the Anishinaabek, explain contemporary cultural practices, and teach students about treaties, environmental justice movements from the Anishinaabek perspective, hunting and foraging practices, gender roles and sexuality, beadwork, and music.
LAS	352	Geography of Latin America		1			The growth and development of Latin America has a significant impact on most activities in North America. Examines those effects and studies the cultural and physical development of Latin America. Fulfills Cultures - Global Perspectives.
LAS	361	People, Environment, and the Amazon	1				This course explores natural resource use and human settlement over time in the Amazon Basin, from early tribal societies to the present. Topics include extractive economies, trade in animal and forest products, conservation and development initiatives, and the changing demands for resources in urban centers of Amazonia today. Part of the Sustainability Issue.
LS	320	Property and Probate Law		1			A study of property and probate law through the examination of key concepts, case law, statutory law, and documents. Fact-gathering techniques and drafting considerations will be highlighted. Topics include real estate, personal property, environmental law, wills, and probate.
MBA	631	Leading People and Organizations				1	Explores how to improve as a leader through diagnosing organizational problems and developing solutions with individuals and groups as organizational resources. The course also addresses issues of individual, group, and organizational change from a strategic, problem-solving perspective.
MBA	677	Advanced Leadership and Ethics Part 1				1	Explores ethics and leadership as they are commonly encountered in modern business settings. Students will study ethics and leadership from historical, philosophical points of view with attention to issues of decision-making, organizational governance and social responsibility.
MBA	678	Advanced Leadership and Ethics Part 2				1	Builds on material presented in Part 1 and explores ethics and leadership as they are commonly encountered in modern business settings. Students will study ethics and leadership from psychological points of view with greater attention to issues of character and social responsibility.
MES	301	International Business and Culture Study Abroad		1			Explores how business is done in a country or region, and how culture influences business and its environment. This course reviews the country's history, economics, politics, government, arts, or education. It also explores how business practices may differ from U.S. practices.
MES	370	Contemporary Issues in the Middle East: The Model Arab League		1			Students in this course will learn about the current political, environmental, economic, social, cultural, military, and international affairs of Middle Eastern countries. They will research these issues and participate in the Model Arab League simulation as part of the course. May be repeated for credit if content differs. Part of the Human Rights Issue.
MGT	340	Business, Social Change and Ethics	1				Examines the process of business development and the ethical questions that process raises. Particular attention is paid to the questions raised by market pressures, bureaucratic organization and income stratification. Fulfills one of the Issues/Themes requirements.
MGT	438	Business Ethics		1			An inquiry into the relevance of the classical ethical literature to the resolution of everyday business problems. Particular emphasis will be placed on the practical usefulness of the Socratic tradition. That tradition requires that we attend to clarifying our own values as well as those of others. We will read a number of Socratic Dialogues, respond to a variety of business cases, and attend to the relationship between them and the process of understanding ourselves. Fulfills one of the Issues/Themes requirements.
MGT	355	The Diversified Workforce		1			An examination of the experiences of different groups in the U.S. workforce, including race, ethnicity, gender, age, disability, and sexual orientation. Cultural differences are explored and a consideration is given to the ways in which organizational norms operate to include or marginalize different groups of people. Fulfills Cultures - U.S. Diversity. Fulfills one of the Issues/Themes requirements.

MGT	466	International Management and Multinational Corporations		1			A study of the managerial challenges of conducting business in a global economy. Emphasis on cultural differences and their impact on the situations and issues managers confront when working internationally. Requires senior status or approval of instructor. Fulfills one of the Issues/Themes requirements. Fulfills Cultures - World Perspectives.
MGT	672	Creativity and Social Entrepreneurship				1	This course provides applied sustainable development tools and best practices that businesses and non-profit organizations can use to address social entrepreneurship issues using innovative, interdisciplinary, and sustainable approaches.
MKT	350	Marketing Management		1			An introduction to marketing. Provides a general understanding and appreciation of the forces operating, institutions employed, and methods followed in marketing products and services both domestically and internationally.
MKT	352	Marketing Research		1			Detailed examination of business research procedures and applications. Problem definition, research design, data collection, sampling techniques, costs, etc. Case problems and projects.
MKT	354	Distribution Institutions and Logistics		1			An integrated study of supply chain and distribution channels, and their institutions in the global marketplace. Topics include an introduction to the supply chains, system design, advantages and disadvantages of various channel institution types, and the functional dimensions of supply chain and distribution management.
MKT	370	New Product Development		1			This course teaches students how to develop a successful new product or service. Student teams experience the whole process involved in bringing a new product from idea to launch. Emphasis is on the application of fundamental marketing and entrepreneurial principles required to achieve continuous innovation and sustainable competitive advantage.
MKT	375	Marketing Ethics		1			The ethical implications of several current marketing public policy issues will be discussed, including consideration of each issue with regard to the responsibility of business in society. Guidelines for ethical decision-making, principles of ethical leadership, and ethical behavior in corporate governance will also be reviewed.
MKT	451	Marketing Strategy		1			A methodical analysis of a significant number of marketing cases selected from actual business experience to illustrate the application of sound principles to market planning, sales forecasting, and market management. Offered fall and winter semesters.
MKT	651	Marketing Management				1	Focuses on developing an understanding of the role of markets and marketing in the macroeconomic environment, and on providing marketing managers with the knowledge and tools they will need to successfully analyze product markets and develop marketing strategies that will provide sustainable competitive advantage.
MKT	680	Social Media				1	In-depth analysis of selected current topics and problems in marketing. Content will vary from semester to semester among the many subareas of marketing management, physical distribution, systems analysis/design, application, model building and theory; this course focuses on social media.
MOV	350	The Obesogenic Environment		1			Obesity is a global health issue. This course will examine obesity within the context of behavioral choices, and physical and social environments (e.g., public health policy, sociocultural influences, food accessibility, media, marketing).
NRM	140	The Climatic Factor		1			A study of the atmosphere, broad aspects of weather and climate, microclimatology, and the geography of climate and effects on terrain, vegetation, and people.
NRM	150	Introduction to Natural Resources	1				Survey of natural resource issues and environmental problems. The course will use an integrated approach involving concepts from natural and social sciences to provide a foundation for understanding past, present, and future natural resource issues including biodiversity, land use, water and air pollution, human population, energy use, and waste management.
NRM	230	Introduction to Fire Management		1			This course provides students with a basic introduction to wildland and prescribed fire ecology, behavior, and management.
NRM	240	Principles of Climatology	1				The atmosphere, broad aspects of weather and climate, microclimatology, and paleoclimatology. Instrumentation, data presentation, ecoclimate, and microclimatological field observations. Lecture, laboratory, and field trips.
NRM	250	Resource Measurement and Maps		1			Techniques of resource measurement including understanding spatial relationships and tools associated with data analysis. Introduction to navigation with compass, vegetation sampling, use of geographic information systems, global positioning systems, remote sensing, and their integration.
NRM	263	Forest Vegetation of the Great Lakes Region		1			Nomenclature, classification, and identification of woody plants based on leaf, twig, bud, bark, fruit, and growth form. The course will focus on vegetation found in forests within the Great Lakes and Northeastern regions of the United States, and frequently planted ornamentals.
NRM	281	Principles of Soil Science		1			Aspects of the physical, chemical, and biological properties of soils.
NRM	300	Ethical Recreation: Leave No Trace	1				This three-day backpacking course covers how increasing recreational use of public lands can impact biophysical resources and visitors' experience. Students will apply the principles and practices of the Leave No Trace (LNT) program which are designed to reduce the effects of wildland recreation. LNT certification possible upon successful completion.
NRM	308	Wildlife Ecology		1			This course provides an introduction to wildlife ecology including population ecology as it relates to wildlife management and conservation.

NRM	320	Introduction to Resource Systems		1			Basic principles, terminology, and methodology for the analysis and modeling of resource systems, including natural environments and human ecosystems.
NRM	330	Environmental Pollution		1			Investigation of causes and effects of water, soil and air pollution. Prevention and management of pollution will be discussed and examined from natural and social science perspectives. Design of impact assessment studies, data interpretation and laboratory methods. Topics may include waste disposal, acid deposition, climate change, toxicology, and risk assessment.
NRM	380	Collaborative Environmental Management	1				Lecture, discussion, laboratory, or field experience (or any combination of the preceding) in specific areas of resource management.
NRM	380	Renewable Energy Management and Molding	1				Lecture, discussion, laboratory, or field experience (or any combination of the preceding) in specific areas of resource management. Prerequisites: Variable.
NRM	380	Livelihoods, Resources, and Development	1				Lecture, discussion, laboratory, or field experience (or any combination of the preceding) in specific areas of resource management.
NRM	380	Managing Soil Health	1				Lecture, discussion, laboratory, or field experience (or any combination of the preceding) in specific areas of resource management.
NRM	386	Ecological Restoration & Management	1				This course will introduce students to ecological restoration and examines the practical methods and techniques used in ecosystem restoration and management.
NRM	395	GIS Applications in Resource Management		1			Explores applications of Geographic Information Systems (GIS) in natural resources management. Students will work on projects and examine several case studies in which GIS is used for the management of natural resources, including watershed analysis, environmental impact of timber sales, habitat loss, and endangered species conservation.
NRM	407	Natural Resources and Society: Study Abroad	1				Natural resources topics related to biodiversity, sustainability, alternative energy, environmental policy and economics, land use, climate change, historical influences, and cultural/societal attitudes conducted within an international context. The society-based experience is combined with readings, lectures, papers, and discussions.
NRM	415	Fire Ecology and Management		1			An examination of fire as an ecological and biophysical process, and its interactions with and effects on a variety of ecosystem components, and use as a resource management tool.
NRM	417	International Field Studies in Resource Ecology & Mgmt	1				Intensive field work related to natural resources ecology, conservation, preservation, and management conducted within an international context. The field-based experience is combined with readings, lectures, papers, and discussions.
NRM	420	Wildland Recreation Management	1				Learn about the challenges of managing wildland recreation that both meets the needs of users and preserves the ecological health of ecosystems. Learn techniques to manage dispersed recreation that occurs on public lands and waters and how to limit their impact on visitors and soil, vegetation, water, and wildlife.
NRM	430	Advanced Wildland Fire Management		1			This course provides students with advanced skills and knowledge related to wildland- and prescribed-fire ecology, behavior, and management.
NRM	450	Applied Spatial Analysis of Natural Resources		1			The course focuses on environmental and natural resource applications of computer-based spatial analysis concepts and techniques. Students will analyze contemporary environmental challenges using, for example, advanced geographic information systems (GIS) tools, image interpretation and analysis, simulation modeling, and spatial analysis.
NRM	451	Natural Resource Policy	1				Study of how natural resource policy is developed and implemented in the United States. Focuses on public policies toward renewable resources such as forests, biodiversity, land, recreation, and water. Includes foundations of the American legal system, choice of policy instruments, and basic methods of policy analysis. Part of the Sustainability Issue.
NRM	452	Watershed and Wetland Management	1				Theory and application of wild land and urban hydrology, including the values of watersheds and wetlands as domestic ecosystems.
NRM	462	Forest Ecosystem Management	1				Traditional forestry practices will be introduced, with emphasis on how established practices can be integrated with the concepts of sustainable forestry and ecosystem management. The presentation, discussion, and synthesis of new approaches to the management of forest ecosystems will be especially stressed.
NRM	486	Restoration Ecology	1				Lecture, discussion, laboratory, or field experience (or any combination of the preceding) in specific areas of resource management.
NRM	496	NRM Issues in Southwest	1				Temporary course - description not available.
NRM	495	SWS Trends in NRM	1				A comprehensive and integrative analysis of the fundamental assumptions, issues, and problems of natural resources management. Examines the historical roots of natural resource management, identifies factors that caused natural resource management to change, and explores proposals for managing natural resources in the future. (0-4-0) Offered fall and winter semesters.

NRM	572	Fisheries Management			1		An introduction to the principles of fisheries science and management, focusing on the process and tools for managing fish populations and their habitat as well as emphasizing quantitative methods for fisheries assessment.
NRM	576	Aquatic Ecosystem Management			1		Wise management of aquatic ecosystems is a pressing need with societal demands on freshwater increasing. This class allows for hands-on experience developing and implementing a management plan in a local setting by linking an understanding of aquatic ecosystem structure and function with management, restoration, and protection.
NRM	580	Applied Spatial Analyses			1		Lecture, discussion, laboratory, or field experience (or any combination of the preceding) in specific areas of resource management
NUR	364	Embracing Wicked Problems in Healthcare	1				Wicked problems in healthcare are chronic, reoccurring issues that require both problem solving and polarity thinking. Students across disciplines work in groups applying principles of dialogue and polarity management to address polarizing tensions, where both sides are right and need each other's wisdom to create sustainable positive health outcomes.
NUR	411	Community Based Nursing Care	1				This course focuses on the role of the baccalaureate prepared nurse in the application of the nursing process while caring for individuals and families in the community. Course concepts include development over the lifespan, group dynamics, systems, nursing roles, interdisciplinary behaviors and professional communication
NUR	412	Nursing Care for Populations	1				This course focuses on the role of the baccalaureate-prepared nurse in assessing, planning, intervening and evaluating health care needs for populations. Concepts such as culture, social justice and vulnerability will be examined as to their effects on population health.
NUR	447	Community Health and Mental Health Clinical					Students provide care to individuals/populations in the community, emphasizing mental health/illness concerns, social determinants of health, and culminating with an in-depth assessment, collection, and organization of data. This assessment is foundational work to establish a community diagnosis and Capstone in the following semester.
NUR	446	Community Health and Mental Health Theory	1				This course builds knowledge of the roles of community health nursing in various settings, caring for individuals and aggregates, from culturally diverse backgrounds, across developmental stages and along the health/illness continuum. The nursing process facilitates applying concepts of the human experience of mental health and illness through the lifespan.
NUR	476	Population Health Theory	1				This course integrates nursing and public health concepts/trends to assess community health needs and program planning. Nursing process will be fully utilized at the community level to examine social, political, legal/ethical, and environmental issues. Theory and research are emphasized to include collaborative practice, health policy, and interdisciplinary teamwork.
NUR	625	Health Issues in Vulnerable Populations			1		This course examines and incorporates epidemiologic methods and theories in the assessment of health disparities in vulnerable populations. Course content will explore issues in health access, disparities in U.S. populations, and examine current trends, societal consequences, and contributory cause(s).
OSH	300	Introduction to Occupational Safety and Health	1				An overview of safety and health concepts (accidents, legal accountability, hazard recognition/remediation, countermeasures and risk) as they apply in a variety of occupational settings.
OSH	310	Hazard Control	1				A study of general and mechanical hazards found in the workplace and methods of controlling them to limit employee exposure.
OSH	316	Health and Safety Techniques	1				Laboratory experience designed to expose students to various monitoring tools used in the development and maintenance of a comprehensive safety program in an occupational setting.
OSH	326	Principles of Industrial Hygiene	1				A study of industrial hygiene methods, measurement, and equipment.
OSH	350	Behavioral Aspects of Safety	1				An examination of various pathways in psychology, their impact on the individual, on safety, and the application of basic psychological principles in the safety profession.
OSH	410	Ergonomic Safety Engineering	1				An examination of various ergonomic engineering and human factors engineering methods used by safety specialists to reduce injury producing work conditions. Topics covered include systems safety analysis, fault tree analysis, MORT, as these tools relate to an effective ergonomic program.
OSH	414	Environmental Safety and Health Regulations	1				A study of laws addressing environmental pollution and hazardous waste management.
OSH	416	Advanced Industrial Hygiene	1				Advanced study of laws addressing environmental pollution and hazardous waste management.
OSH	440	Safety and Health Program Development	1				An examination of the concepts and tools used in safety program development and implementation for a variety of work settings
OSH	460	Environmental Compliance Applications	1				Instruction in the professional management of environmental regulations, utilizing classroom and practical applications. Offered winter semester. Prerequisite: OSH 414 or permission of instructor. Credits: 3

OSH	495	Safety and Health Administration		1			An integrative exploration of the administrative function of a comprehensive safety program with emphasis on operations analysis, design, implementation, and evaluation.
OST	710	Health Disparities and Social Determinants of Health				1	Course introduces the concept of social determinants of health, specifically social inequalities and patterns of inequity in health status and care as related to occupational therapy. Theory and practice approaches to participatory justice will be studied. Topics include race, class, education, family, neighborhood, media influence, gender, and global concerns.
OST	720	Cultural and Contextual Influences on Occupational Performance				1	Course will further student understanding and application of various influences on the profession of occupational therapy from macro-, meso-, and micro-perspectives. These new perspectives will be used to address the influence these factors have on therapy outcomes within practice settings and occupational performance for clients.
PA	324	Urbanization	1				Examines the process of urbanization, its impact on various cultures, and its long-term sustainability. Considers the rapid urbanization in the developing countries and the dynamic growth of global urban systems, emphasizing the evolution of cities over time, space, and vastly different social, political, and cultural environments. Fulfills Cultures - Global Perspectives. Part of the Sustainability Issue.
PA	380	Disaster Relief/Emerg Prepared		1			Disaster relief and emergency preparedness.
PA	552	Law & Ethics in Local Government				1	Advanced-level workshop directed toward public sector professionals focusing on specific public sector problems and policies
PA	641	Economic and Community Development				1	Describes and evaluates ways to coordinate the efforts of public agencies, private businesses, and nonprofit organizations to address planning, economic development, and employment issues more comprehensively. Included in this analysis are public and private programs basic to economic development; state and federal enabling legislation and regulations; local ordinance and public/private partnership alternatives.
PA	670	International NGO Management				1	Theory and cases in international nongovernmental organizations (INGO) management. Analysis of various types and various roles played by INGOS. Relationship between INGOS and other actors in international development such as multilateral and bilateral donors, host governments, local NGOs and local communities. Resource generation and management. Assessment and improvement of INGO performance.
PA	550	Applications of Sustainability Principles to Comm			1		Advanced-level workshop directed toward public sector professionals focusing on specific public sector problems and policies. Format and scheduling are flexible and may include weekend sessions. Topics will vary and prerequisites may be established.
PA	671	Building Sustainable Communities			1		Provides an overview of ecological, energy, climatic and consumption issues impacting local communities. Through a multidisciplinary approach, students study the relationship among society, organizations, and the natural environment.
PA	672	Building Sustainable Public-Serving Organizations			1		Provides guidelines for local government and nonprofit managers who are transitioning their organizations to sustainable methods and practices. Students learn how to measure and analyze an organization's environmental footprint and social
PAS	554	Community Service Learning Project/Phys Asst Prof Issues II				1	These workshops provide students with timely, interesting, and diverse content that complements learning in their graduate courses and exposes them with the topics, trends and thought leadership currently engaging the Johnson Center for Philanthropy. Through the workshops, students have the opportunity to interact with both local and visiting practitioners and thought leaders.
PAS	620	Community Service Learning Project/Clinical Rotations II				1	Second course to transition students from didactic to clinical training. Students will be assigned to a combination of clinical rotations selected from: family practice, internal medicine, OB/GYN, geriatric medicine, pediatrics, psychiatric medicine, emergency medicine, surgery, rural medicine, underserved medicine, and clinical electives.
PED	376	Sport Facility and Event Management		1			This course examines the principles of facility operations and event management in the industry of Sport Management. This class provides students with an in-depth investigation of the unique challenges and opportunities that are routinely faced by a
PED	380	Facility and Event Management		1			Study of special problems in physical education upon consultation with advisor and approval of department chair.
PH	500	Introduction to Public Health				1	Introduction to the history, philosophy, current concepts, practice, and administration of public health in the United States.
PH	505	Social/Behavior Public Health				1	This course examines the broad foundation in public health theory and tools for its application within the larger scope of public health research and practice. The course will provide an understanding of how both social and behavioral theory is essential in the creation of effective intervention approaches. Course offered winter semester. Prerequisite: Admission to the master of public health program. 3.000 Credit hours
PH	520	Environmental and Occupational Health				1	Presents basic concepts of environmental health and occupational health. Students will explore the biological, chemical, and physical factors from the environment (community and occupational) that impact the health of the public at a global and local level. Topics covered include air and water quality and industrial hygiene.



PH	540	Public Health Law and Ethics				1	This course investigates elements of legal and ethical theories in public health. Students will use a case study approach to scrutinize ethical and legal issues in public practice, administration, and research.
PH	606	Environmental and Occupational Epidemiology				1	Environmental and occupational epidemiology will introduce students to the epidemiologic methods utilized in studying health effects of environmental and occupational agents. This course will also provide students with an understanding of how these agents affect the health of workers, as well as the health of the community.
PHI	622	Health Behavior and Promotion				1	Provides students with the background on health-related behavior theories and health status, to develop and evaluate educational activities designed to improve individual and community health and quality of life.
PH	623	Food, Health, and Justice			1		This course provides students with an introduction to the urban food movement. Concepts such as access to food, quality of food, affordability of food, and food-related policies are explored through both traditional and nontraditional learning opportunities, leaving students with a unique perspective of food in the urban environment.
PH	630	Health and Disease Disparities				1	Presents patterns, causes, and possible solutions to health disparities. The course will identify the role of race, ethnicity, and socioeconomic status in health research and access and utilization of health services.
PH	633	Public Health and Environmental Impact Assessment			1		The course will emphasize related concepts, theory, assessment methods, and integration and evaluation of models to examine contamination due to air, water, and soil pollution.
PH	634	Environmental Justice			1		This course addresses the unequal burdens of environmental contamination and health disparities affecting marginalized communities across the U.S. and internationally. Environmental health/justice theories and illness and disease related to environmental atrocities will be discussed.
PH	645	Global Environment and Occupational Health				1	This course addresses environmental and occupational health in respect to developed, emerging, and less developed countries. Students are educated from an international perspective to analyze global trends in core areas of environment-human interaction with emphasis on vulnerable populations.
PHI	102	Ethics	1				What is good? What is evil? Are there objective standards for right and wrong? What are these objective standards? How can they be applied to important contemporary moral problems? This course considers the answers philosophers give to these and related questions.
PHI	202	Philosophy and Ethics of Health	1				What is health and what ethical issues surround the care of health? Explore classic theories about the nature of physical and mental health through primary texts and philosophize about key issues in health care, such as consent, augmentation, distribution, and the value of health.
PHI	206	Business, Value, and Trust	1				This course is an introduction to how enduring questions of philosophy thematically connect to issues of work, commerce, markets, and marketing. The course uses historical and contemporary texts along with case studies and examples to explore issues of meaning, value, knowledge, human nature, social and economic justice, identity, and freedom.
PHI	300	Theories of Human Nature	1				Survey of philosophical, scientific, and religious conceptions of the human being, from past and present and from various cultures. Issues include meaning of life, destiny of humanity, relations between humans, human development and evolution, relations of humans to their creator/origins and to their environments, and methodologies for investigating human nature.
PHI	320	Social and Political Philosophy	1				Analyzes the intellectual appropriation of the concept of freedom over time. Emphasis will be given to the dynamic interaction between freedom and social control in classics of Western philosophy from ancient times to modernity. Authors include Plato, Epicurus, Aristotle, Aurelius, Augustine, Hobbes, Rousseau, and Marx. Part of Human Rights Issue.
PHI	325	Ethics in Professional Life	1				Examination of ethical principles and practice in business, medicine, education, law, and government. This course aims at providing students with the intellectual framework for an ethical analysis of situations which arise within various professions. Also seeks to foster mutual understanding across professional lines.
PHI	420	Philosophy of Science	1				Scientific knowledge is compared with that acquired in other disciplines. Topics common to the physical, biological, and social sciences, such as discovery, explanation, confirmation, and the nature of scientific models and laws are also considered.
PHI	430	Mind, Brain, Consciousness	1				A study of classical and contemporary philosophical perspectives on the human mind. Topics may include materialistic vs. nonmaterialistic conceptions of thought and consciousness; relation between mind and brain, body, behavior, and environment; artificial intelligence; animal cognition; mental illness; altered states of consciousness, self-consciousness, and personhood.
PHY	360	Statistical Thermodynamics	1				Basic concepts of heat, thermodynamics, and statistical physics for students of applied and theoretical physics. Temperature, equations of state, laws of thermodynamics, properties and behavior of pure substances, ideal gases, and mixtures. Introduction to statistical physics including statistical ensembles, probability, kinetic theory, heat capacity, and ideal gas velocity distributions.

PLS	103	Issues in World Politics		1			Analysis and discussion of contemporary issues in world politics as a vehicle for introducing core concepts in comparative politics, such as democracy, dictatorship, civil society, power, nationalism, political economy, social policy, identity politics, and development. Students will gain basic familiarity with the institutions, actors, and processes that influence world politics.
PLS	105	Introduction to Human Rights		1			Introduction to the historical and conceptual development of human rights as moral, legal, and cultural constraints on the behavior of states in relation to their citizens. Analysis is theoretical, exploring philosophical arguments surrounding the historical development of human rights and their current role in legal, cultural, literary and political products. Fulfills Foundation - Philosophy and Literature. Offered fall and winter semesters. 3 cr
PLS	205	The Policy Process		1			An introduction to the study of public policy. Examines the politics of the policy-making process in the United States. Students will gain an understanding of how issues emerge and ultimately become policies, how politics shapes public policies, and how these policies affect people's lives
PLS	301	Poverty, Inequity, and US Public Policy		1			This course examines poverty and inequality in the United States. Topics include definitions of poverty and inequality, historical trends, and policy responses. Diverse perspectives, including international comparisons, will be presented. Students will explore various dimensions of inequality through small group activities.
PLS	302	Women, Politics, and Public Policy		1			This course explores the ways that gender influences government and policy decisions. Students will explore many gendered issues and the relevant policy responses. Topics include domestic violence, reproductive policies, divorce and the family, marriage and the family, poverty, class, and compensation.
PLS	303	Introduction to US Environmental Policy	1				This course examines the decision making processes to cope with modern environmental problems. The course focuses on both domestic and international environmental issues with special attention to interests, ideas, and institutions.
PLS	310	Politics and Health Policy		1			Explores contemporary issues in health policy and politics. Students will develop an understanding of the historical context, institutions, participants, and issues that structure health policy. Special emphasis on the politics of health care reform in the 1990s. Offered fall semester. Prerequisite: PLS 102 or junior standing. 3 cr
PLS	311	International Conflict and Conflict Resolution		1			Analysis of the causes of war and conditions for peace. Topics also include peacekeeping operations and the outcomes and ethics of war. Fulfills one of the Issues/Themes requirements. Offered fall and winter semesters. Prerequisite: PLS 211 or junior standing. 3 cr
PLS	316	Human Rights in International Politics		1			An analysis of human rights as an increasingly influential principle in international relations, and the friction between sovereignty and international standards of behavior. Topics covered within class may include the theoretical origins of human rights, international norms, international law, sovereignty, interventionism, particularly viewed through historical and contemporary human rights cases.
PLS	321	The European Union		1			An examination of politics and policies in the European Union that includes participation in an international political simulation. Students spend three days in Indianapolis in April to take part in the Midwest Model EU. Topics include integration theory, institutional reform, enlargement, and economic, social, environmental, and security policies.
PLS	327	Politics of Developing Countries		1			An examination of government and political economy in developing countries. Topics include nation and state building, authoritarianism and democratization, and contemporary policy issues, including population growth, urbanization, hunger, and economic structural adjustment.
PNH	150	Careers in the Nonprofit Sector		1			The purpose of this course is to introduce students to careers that are available in the nonprofit sector, with an emphasis on the management and administrative positions that are available. Specific areas of interest include careers in fundraising, program management, and volunteer management.
PNH	220	Organizing to Make A Difference		1			The purpose of this course is to provide an introduction to community organizing, outreach and advocacy, specifically the knowledge, skill, and value base underpinning community organizing, planning, development, and change. It will emphasize the myriad roles, goals, and strategies in effecting social change in the public and nonprofit sectors.
PNH	270	Public and Nonprofit Administration		1			A survey of what is involved in the administration of public and nonprofit entities. How to hire, evaluate, and reward the right people, developing and carrying out public policies, preparing and interpreting budgets, dealing with various pressure groups and governmental agencies, and organizing human resources to carry out the public's business honestly and effectively.
PNH	380	Civil Engagement and Service Learning		1			Consideration of selected topics not ordinarily dealt with in other courses. Topics to be determined by faculty interest and student request.
PNH	554	Philanthropic Topics, Trends, and Thought Leaders				1	These workshops provide students with timely, interesting, and diverse content that complements learning in their graduate courses and exposes them with the topics, trends, and thought leadership currently engaging the Johnson Center for Philanthropy. Through the workshops, students have the opportunity to interact with both local and visiting practitioners and thought leaders.
PNH	612	Human Resources in Organizations				1	A survey of policies and issues in human resource management in public, nonprofit, and health care contexts, including volunteer management. The focus is on values, behavior, ethics, and human interactions in organizations.

PNH	615	Public Financial Administration				1	Practices and problems of public fiscal management with special attention to budgetary concepts and analytical techniques: the budget as an instrument of planning and control; organizing to ensure fiscal accountability; the public economy; financial decision-making; planning, programming, and budgeting systems; and allocation of scarce government resources in government and nonprofit agencies and programs.
PNH	616	Public Policy Analysis				1	An exploration of theories advanced to explain policy formation; examination of how needs are identified, communicated to policymakers, evaluated and converted into formal policy, and implemented by administrative actions.
PNH	620	Metropolitan Politics and Administration				1	Examines theories and practice of metropolitan politics and administration, including studies of intergovernmental relations, suburbia and the multicentered metropolis, economic development and managing metropolitan services. Structures of politics and power, both formal and informal, are investigated.
PNH	642	Conflict Management				1	Provides an overview of theories of social conflict. Develops an understanding of the conceptual issues involving conflict and conflict management on many levels in diverse settings. Introduces specific dispute resolution skills such as negotiation and mediation.
PNH	643	Strategic Management and Planning				1	Planning as a decision-making process, methods for defining goals in public and private planning programs, role of planning in policy formulation, planning for human environment relationships.
PNH	671	Building Sustainable Communities			1		Provides an overview of ecological, energy, climatic, and consumption issues impacting local communities. Through a multidisciplinary approach, students study the relationship among society, organizations, and the natural environment. Students examine how local governments and nonprofit organizations develop sustainable built landscapes, educate about sustainable best practices, and foster green economic development.
PNH	674	Health Advocacy and Built Environment in Public Administration			1		This course explores the relationship between advocacy and the built environment and its influence on community health in the fields of public health and urban planning. This course will examine such issues as theories and concepts of behavior and design, health disparities, social capital, physical activity, transportation, and food systems.
PSM	650	Ethics and Professionalism in Applied Science				1	Ethical and professional issues and problems facing practicing scientists. Emphasizes the role of scientists in public and private sectors, their responsibilities, and emerging ethical and professional issues.
PSY	355	Psychology and Culture	1				Exploration of the interaction between ecological and cultural variables and psychological processes. Topics include cultural influences on perception and cognition, personality, cognitive and social development, social relations, interpersonal and intergroup behavior, and psychopathology. Fulfills Cultures - World Perspectives.
PSY	360	Social Psychology	1				Relation of the individual to the social environment with emphasis on personality development and role behavior. Analysis of interpersonal behavior with reference to problems of conformity and influence.
PSY	361	Perception	1				Study of how humans organize and interpret stimulation arising from objects in the environment. Review of theory, methodology, and research findings will be emphasized.
PSY	362	Environmental Psychology	1				Study of the relationships between the physical environment, natural and human-made, and the behavior of human beings. The course focuses on the perceptual, cognitive, and motivational aspects of the human-environmental interaction. Offered occasionally. 3 cr
PSY	445	Industrial/Organizational Psychology	1				The application of psychological facts and principles to business and industry. Topics include selection, placement, and evaluation of employees; work motivation; job satisfaction; leadership and management; organization and behavior; and organization development.
PT	682	Health, Wellness, and Special Topics in Physical Therapy				1	This course provides principles of physical therapy in health promotion and wellness, pelvic health, home health, cancer treatment, ergonomics, alternative and complementary health, nutrition, health literacy and other special topics. Students learn strategies to examine diseases, injuries, impairments, functional limitations, and disabilities due to various health conditions in various settings.
REL	200	Religions in Human Experience	1				An interdisciplinary introduction to how religion has been understood and has shaped human experience, past and present.
REL	300	Religions in the World Today	1				This course explores the intersection of religion with human life, law, politics, and public culture, focusing on contemporary religions' roles in the secular world. Topics may include human rights, fundamentalism, migration/immigration, social and political movements, gender/sexuality, nationalism, contemporary religious movements or phenomena, and environmentalism, among others.
RTX	302	Leisure, Health and Wellness	1				Addresses the concept of leisure and its use in achieving and maintaining good health and well-being of individuals, families, and societies. Leisure education and complementary health promotion strategies to achieve health and wellness are integrated throughout the course.
SAT	495	Teaching Sciences and Arts in Elementary Classrooms	1				Students will prepare and practice teaching interdisciplinary lessons for elementary students that meet national and state standards. Thematic content will integrate language arts, mathematics, science, and social studies.

SCI	225	Teaching Life Science for Pk-3 Teachers		1			Course promotes mastery of life and earth science concepts necessary to teach PK-3 science. Through inquiry and group discussions students develop reasoning and thinking skills critical to science while also developing mastery of science content
SCI	226	Integrated Physical Science for Pk-3 Teachers		1			Course promotes mastery of physical and earth science concepts necessary to teach PK-3 science. Through inquiry and discussions students develop reasoning and thinking skills. The course focuses on science teaching and learning that is connected to the other science disciplines.
SCI	227	Integrated Life and Earth Science for 3-6 Teachers		1			Integration of Earth and life science concepts for preservice teachers. Includes Earth and space systems, major concepts in biology, scientific investigations, and engineering design. This course integrates content with cross-cutting concepts and science and engineering practices. Content reflects national and Michigan science standards.
SCI	319	Science in Elementary Education		1			Students will create and present a lesson plan, test hands-on activities, develop a deeper understanding of physical science concepts, and explore classroom safety issues related to teaching science at the K-8 level. Scientific misconceptions commonly held by teachers and students will be discussed.
SCI	336	Ecology for K-8 Preservice Teachers	1				Ecological concepts for preservice teachers. Includes ecosystems, energy flow, evolution, population dynamics, community ecology, and human impacts on the environment. This course is intended to integrate concepts from biology, physics, chemistry, and earth science.
SCI	450	Earth and Life Science in Secondary Education		1			Designed to introduce students to evidence based, earth and life science teaching pedagogy, science education standards, and science safety practices. Students apply these ideas to lesson plan development and facilitation for earth and life science content.
SCI	495	Teaching Science in the 21st Century		1			A study of how biology, chemistry, earth science, and physics can be integrated into effective curriculum for teaching science in PK-6 classrooms. Constructivist and inquiry-based science techniques emphasized.
SI	600	Cultures of Social Innovation				1	This foundational course introduces students to diverse interdisciplinary perspectives and models for social innovation. Students learn to identify and evaluate structural inequalities and power relationships across a variety of sectors (for-profit, nonprofit, and governmental). They will develop a vocabulary for engaging with diverse communities and explore models of community engagement.
SI	610	Research Methods for Social Inquiry				1	Providing a survey of interdisciplinary and multiple method research approaches with a focus on the complexities of in-depth social inquiry including theoretical approaches to social problems. Course includes a discussion of the assumptions shaping interdisciplinary research questions and design, practical exercises in research techniques, and analysis of methodology in practice.
SI	620	Case Studies in Social Innovation				1	This course provides a macro- and micro-view of social innovation through case studies focused on change agents and strategies for innovation. Students will examine social innovation processes, movements, and complex adaptive systems of change across and between non-profit, for-profit, and governmental sectors including a variety of case studies.
SI	630	Engaging Diversity in Social Innovation				1	Designed to reinforce students' abilities to identify and critically evaluate structural inequalities, implicit values, and power relations across for-profit, non-profit, and governmental sectors that shape the communities with which they engage. Includes discussion of theoretical frameworks for understanding equality/inequality as well as mechanisms for assessing inclusion and equity. Offered fall semester. Prerequisite: SI 600 or SI 610 or SI 620. Credits 3
SI	650	Place and Environmental Justice			1		This course explores the creation of sustainable human communities, through the critical frameworks of place and environmental justice. Grounded in careful exploration of lived experience and the development of interdisciplinary place-based frameworks, students will develop critical tools for and perspectives on integrated ecologies of social innovation. Offered winter semester. Prerequisite: SI 600 or SI 610 or SI 620. Credits: 3
SI	661	Social Innovation				1	Full-time or part-time, on-the-job social innovation work performed at a sponsoring entity while under the supervision of an approved mentor in a non-profit, for-profit or governmental organization.
SI	690	Social Innovation Research Design				1	In this course students will work collaboratively with peers to develop and design a research project addressing a complex local/regional social problem. The project design will integrate social innovation research theory and practice, and iterative and adaptive project modeling. Students will share their project design in a culminating presentation.
SI	693	Master's Project in Social Innovation				1	Supervised preparation of final research project for the Professional Master of Arts in Social Innovation degree. Project research will be conducted under the supervision of faculty project supervisor.
SOC	205	Social Problems	1				Examines a range of social conditions, arrangements, and behaviors typically defined as problems in modern society. Applies sociological analysis to understand how problems arise from the organization of society, and the processes by which conditions become identified as social problems, and how ideology and power shape responses to social problems.
SOC	286	Health and Society		1			An analysis of the social facets of health and disease, the social functions of health organizations, the relationship of health care delivery to other social systems, the social behavior of health care providers and consumers, and international patterns of health services. Race, class, and gender issues are examined.

SOC	287	Sociology of Religion		1			Critically analyzes religion as an institutional structure and belief system and explores the relationship of religion to social change and organization. Emphasis on religion in the contemporary United States, both the uniquely American aspects of religion and in comparison to the broader diversity of religious expression globally.
SOC	288	The Sociology of Food		1			Considers the way in which values and ideas are socially constructed, with specific focus on the relationship between food and society. A comparative, cross-cultural analysis that examines food production, distribution, preparation, and consumption. Includes nutrition, social eating disorders, religious prescriptions and proscriptions, food and poverty, fast food, and world hunger.
SOC	306	The Sociology of Human Rights		1			This course uses a sociological framework to examine how human rights are socially determined, theorized, conceptualized, designed, interpreted, adjudicated, implemented, enforced, violated, and contested. It does so by looking at specific human rights regimes, categories, and violations in both national and global terms. Part of the Human Rights Issue.
SOC	313	Race and Ethnicity		1			Analysis of cultural, historical, and social construction of race and ethnicity in the U.S. and cross-culturally. Assesses theories of prejudice, discrimination, and racism. Grounds the examination of the interplay of group privilege and disadvantage within the context of contemporary issues related to race and ethnicity.
SOC	315	Social Class Inequality		1			Focus on the historical, socioeconomic, and political construction of class inequality in the United States from a critical perspective. Includes attention to cultural and global context.
SOC	317	Sociology of Gender		1			Explores gender as a socially constructed system of stratification. Topics may include how ideas about gender shape childhood, families, education, work, violence, science, and social inequality. Examines how gender intersects with other socially constructed systems of stratification, including race, sexuality, class, age, and ability. Fulfills Cultures - U.S. Diversity. Part of the Identity Issue.
SOC	322	Sociology of Community		1			Examines sociology's community studies tradition and concerns with the modern fate of close-knit, cohesive communities. Readings focus on the field's intellectual origins, contrasts between small towns and cities, major theories, research methods, and contemporary communities. Fulfills Cultures - U.S. Diversity. Part of the Identity Issue.
SOC	345	Cultural Sociology		1			Examines the symbolic processes in the production and circulation of meanings within society and the sociocultural context in the construction and interpretation of social behavior, social identity, and location.
SOC	351	Urban Sociology	1				Explores urban theory (Chicago School, political economy, and cultural approaches); the evolution of cities; suburbanization, race relations, street life, sustainability (economic, social and environmental), redevelopment, urban politics, and international comparisons. Readings focus on theory, specific cities, and environmental concerns. Part of the Sustainability Issue.
SOC	350	SWS Family & Gender Dev World		1			A comparative examination of the impact of development on families and gender roles in third world countries. Will include consideration of general issues (e.g., factors affecting family reproduction decisions, women in the formal and informal labor force, etc.) and in-depth study of gender and family in one or more countries. Cross-listed with WGS 350. Fulfills Cultures - World Perspectives. Fulfills one of the Issues/Themes requirements.
SOC	377	Globalization: Structures and Movements		1			Examines and critiques the historical origins, economic and technological foundations, institutional arrangements, ideological underpinnings, collective movements, and controversial outcomes of 'transnationalism' and 'globalization.' Sociological analysis emphasizes macrolevel institutions that shape globalization, social conflicts arising from its effects, and the consequences of global change on individuals, groups, and organizations.
SOC	380	Human Forces Environmental Impact	1				A seminar for the study of important topics not ordinarily covered in other courses. This course may be taken more than once when the topic is different.
SOC	381	Race Class Gender and Sexuality		1			Focus is on the social, historical, and cultural meanings of class, race, and gender. Gives students a better understanding of the interrelationship of class, race, and gender within the context of family life, schooling, and work. Fulfills Cultures - U.S.
SOC	385	Social Class Inequality	1				Focus on the historical, socioeconomic, and political construction of class inequality in the United States from a critical perspective. Includes attention to cultural and global context. Fulfills one of the Issues/Themes requirements.
SOC	430	Aging in Places: Growing Old in the Community		1			This course will use off-campus community engagement to teach challenges faced by older people who increasingly age in place and in isolation. Students will learn obstacles to successful aging including health issues and social isolation, among other related issues. Students will actively strategize practical care and policy proposals.
SOC	490	Practicum		1			Agency experience in the community relating practical training and independent study in a specialized area.
SPM	202	Socio Cultural Dimensions of Sport		1			Introduction to sport from a social and cultural perspective. In accordance with national certification standards, contemporary issues such as gender, race/ethnicity, disability, international cultures, the Olympics, sport education, professionalization of sport, societal stratification, youth sport, social problems in sport, and societal beliefs and values in sport will be examined.

SPM	225	Intro to Sport Management		1			This course provides an overview of the diverse leadership opportunities in the sports industry. The student will be provided information about the structure and function of sport organizations, trends in the industry, professional preparation, and career opportunities.
SPM	356	Current Topics in Sport Management		1			Students will examine contemporary issues in sport management as they relate to ethics in sport, social responsibility, stakeholder identification, decision-making, communication, sport governance, and other diverse aspects of the profession.
SPM	376	Special Topics in Sport		1			This course examines the principles of facility operations and event management in the industry of sport management. This class provides students with an in-depth investigation of the unique challenges and opportunities that are routinely faced by a business manager in the context of events at sport and entertainment venues.
SPM	495	Administration in Sport Management		1			Develop a thorough and fundamental knowledge of administrative principles in sport management including organizational behavior, leadership philosophy and ethics, human resource management, workplace culture, interpersonal and team communication, governance and policy development, technology, professional presentations, and time management.
SST	495	Education in Plural Societies		1			Examines the models used to interpret and explain the role of social studies education in the United States and the world. Explores questions related to social studies as a transmitter of social/cultural values and how these values transform across disciplines and time, both in and out of the classroom.
STA	310	Intro to Biostatistics		1			An introduction to the statistical methods commonly encountered in medical, biological, and health science problems using a statistical package such as SAS or SPSS. Longitudinal data analysis, repeated measures ANOVA, Friedman test, categorical data analysis, odds ratios, sensitivity and specificity, McNemar's test, logistic regression, survival analysis, and reliability.
STA	621	Design of Experiments and Regression				1	Design and analysis of single and multiple-factor experiments. Includes block designs, repeated measures, factorial and fractional factorial experiments, and response surface experimentation. Techniques include simple and multiple linear regression, repeated measures, generalized linear models, correlation, and model building diagnosis. Applications in biological and biomedical problems.
STA	622	Statistics for Biologists				1	Design of experiments and application of statistical techniques commonly used by biologists. Emphasis on techniques for count data, correlation and regression, analysis of variance, multivariate analysis, and nonparametric methods using biological data.
SW	300	Social Work and Difference, Diversity, and Privilege		1			This course explores multiple dimensions of diversity. It examines issues of identity, culture, privilege, stigma, prejudice, and discrimination. Students are expected to use course material to explore their personal values, biases, family backgrounds, culture, and formative experiences to deepen their self-awareness and develop interpersonal skills in bridging differences.
SW	150	Human Needs in Complex Societies		1			Common human needs are examined and a number of historical responses to these needs are placed in a societal context. Cultural forces which affect resource allocation patterns and service delivery systems are analyzed. Fulfills one of the Foundation - Social and Behavioral Sciences.
SW	340	Human Behavior and the Social Environment I		1			The course provides knowledge, values and skills employed in assessing groups, organizations, and communities. Emphasis is focused on the social systems perspective, social work values, and ethics and the issues related to the diversity of context. The course presents theories and knowledge necessary to practice in macro-settings (groups, organizations, communities and society).
SW	341	Human Behavior and the Social Environment II		1			This course provides biological, psychological and social knowledge about human growth and development within life cycle stages. Emphasis is on the development of and individual within a family or small group as experienced within larger social systems. The assessment process within each developmental stage is related to the work of a generalist practitioner.
SW	351	Cross Cultural Service Learning		1			The focus of this course is on the unique culture(s) within the United States and taught using a service-learning approach. Students explore the themes of social welfare development. Students explore the themes of social services, politics, policies and the history of the assigned culture. The course includes a two or three-week experiential learning component in a specific location in the United States. The advanced practice social worker will recognize the interconnectedness between social work, social justice, and civic/global responsibility.
SW	354	Social Work: International Service		1			The focus of this course is on international social work policy and practice. Students interact with various communities using a service-learning approach. The students explore the themes of social services, politics, policies and the history of the assigned culture. The course includes a two or three-week experiential learning component in an international location. The advanced practice social worker will recognize the interconnectedness between social work, social justice, and civic/global responsibility.

SW	380	Pluralism in American Society	1				Pluralism in American society is explored through analysis of cross cultural practices and values, with an emphasis on the commonalities and differences for individuals, groups, organizations, and communities. The social welfare response in the context of US diversity will be a primary focus. Fulfills one of the Issues/Themes requirements.
SW	600	Cultural Competency for Social Work				1	This course examines cross-cultural practices and values, with emphasis on the commonalities and differences among individuals, groups, organizations, and communities. Emphasis is given to critical analyses of people based on age, ethnicity, race, gender, religion, spirituality, sexual orientation, socioeconomic status, veteran, and/or disability status.
SW	601	Foundations of Social Work Practice				1	Examines social welfare as an institution, and social work as a profession in American society. Included are basic knowledge, values, and skills required for advanced generalist practice. Emphasis is on values and ethics, populations-at-risk, social and economic justice, and engagement with individuals, families, groups, organizations, and communities.
SW	620	Human Behavior and the Social Environment				1	The course synthesizes and applies theories of human behavior and the social environment into social work practice with individuals, families, groups, organizations, and communities, based on the person-environment construct and biopsychosocial spiritual assessment models. Special attention will be on the effects of diversity and difference, and lifespan development.
SW	629	Communities and Organizations: Engagement, Assessment, Intervention, and Evaluation				1	This course provides an orientation to macro social work as a core method for advanced generalist practice. Students learn foundational theories and practice skills for engaging, planning, implementing, and evaluating change in communities and organizations. This course emphasizes principles of inclusion, social and economic justice, human rights, and empowerment.
SW	630	Social Work: Global Service Learning				1	The focus of this course is on international social work policy and practice. Students interact with various communities using a service-learning approach. The students explore the themes of social services politics, policies and the history of the assigned culture. The course includes a two or three-week experiential learning component in an international location. The advanced practice social worker will recognize the interconnectedness between social work, social justice, and civic/global responsibility
SW	631	Cross Cultural Service Learning				1	The focus of this course is on the unique culture(s) within the United States and taught using a service-learning approach. Students explore the themes of social welfare development. Students explore the themes of social services, politics, policies and the history of the assigned culture. The course includes a two or three-week experiential learning component in a specific location in the United States. The advanced practice social worker will recognize the interconnectedness between social work, social justice, and civic/global responsibility.
SW	676	Community and Social Planning				1	A review of professional practice in social planning and community organization. Exploration of a range of theories, concepts, and applications. Includes focus on power, influence, inter-organizational relationships and action strategies, development and use of structure and leadership.
SW	690	Social Research 1				1	This course is the first of two in social work research. The foundational concepts and methodology used for scientific practice, including the investigation and evaluation of social work practice problems, an understanding of techniques and issues in measurements, options in research designs, data collection and analysis, and the development of new knowledge in agencies and programs with particular reference to the advanced generalist perspective.
THE	325	Theatre for Social Change		1			Examines performance theory, theatre practice, and educational drama methods used to investigate systems of power, notions of community, identity, and political action. Students will learn about theatrical productions, artistic processes and technology-based communication techniques that help actor-activists initiate social change. Students will create group performances for a chosen community.
US	480	Environmental Sustainability	1				Readings, lectures, and/or discussions in special topics not normally covered by other courses in the program.
WAT	545	Theoretical Perspectives in Aquatic Science				1	Current theoretical and technical aspects of aquatic science will be reviewed and analyzed from a variety of perspectives. Designed for students with a non-science background.
WAT	565	Water Policy and Science			1		This course will engage students through an advanced analysis of water resource policy. Students will also evaluate the relationship between water resource policy and science.
WGS	101	Introduction to Gender Studies	1				Examines gender, sex, sexuality, and race as they relate to other categories of difference from an interdisciplinary perspective including disciplines in the social sciences and humanities.
WGS	224	Intro to LGBTQ Studies					Introduces LGBTQ histories, cultures, and theoretical perspectives in the context of race, class, gender, sexuality, age, religion, ability, and nation. Topics include literary and artistic expression, biological investigations, health matters, policy and politics, community life, and other issues relevant to studying gay, lesbian, bisexual, transgender, intersex, and queer life.
WGS	317	Sociology of Gender		1			Explores gender as a socially constructed system of stratification. Topics may include how ideas about gender shape childhood, families, education, work, violence, science, and social inequality. Examines how gender intersects with other socially constructed systems of stratification, including race, sexuality, class, age, and ability.

WGS	335	Women, Health, and Environment	1				This course is an overview of contemporary women's health issues focusing on the interconnectedness between health and the environment. Topics include reproductive issues, pesticides, sustainable development, occupational hazards, health insurance, and breast cancer. Discussions and readings will focus on the impact of race, class, and sexuality on women's health. Part of the Sustainability Issue.
WGS	350	Family and Gender in the Developing World		1			A comparative examination of the impact of development on families and gender roles in Third World countries. Will include consideration of general issues (e.g., factors affecting family reproduction decisions, women in the formal and informal labor force, etc.) and in-depth study of gender and family in one or more countries. Fulfills Cultures - Global Perspectives
WGS	358	Women and Gender in South Africa		1			This course will cover current debates in social and political issues for women and gender in South Africa. Topics may include history, education, labor, government, women's activism, family, violence, HIV/AIDS, health and reproductive issues, environmental issues, social entrepreneurship, and nongovernmental organizations.
WGS	493	Community Collaborative in South Africa		1			This course combines the practical field experience of working with a nongovernmental organization in South Africa with an analytical component focusing on gender, global feminist theory, nonprofit theory, and social entrepreneurship. Students will combine internship hours with training, contextual lectures, and reflection. Offered spring/summer semester. Prerequisites: Permission of the instructor and minimum GPA of 2.5. Corequisite: WGS 358. Credits: 3
WRT	180	Social Justice Poetry		1			Exploring how poets and spoken-word artists give voice in response to contemporary social issues such as the Black Lives Matter and Me Too movements, the fight against gun violence, and drone strikes.
WRT	305	Writing In the Disciplines		1			Designed to enable students to sharpen their writing skills and begin exploring writing form and styles specific to their academic interests. Sections listed by academic area in the class schedule.
			105	313	23	71	
Undergraduate classes that are sustainability focused:							105
Undergraduate classes that include sustainability:							313
Graduate classes that are sustainability focused:							23
Graduate Classes that include sustainability:							71
Academic Departments							80