

Department	Subject Code	Course #	Course Title	Level	Course Description	Type
Civil Engineering	CE	7322	LOW IMPACT DEVELOP GREEN INFRA	G, D	This course covers the principles and practices of Low Impact Development and Green Infrastructure (LID/GI) for sustainable development including water sustainability through rain harvesting, small systems, resource recovery, and technology-enhanced innovation.	SF
Construction Science Mgmt	CSM	1260	INTRO CONSTRN & CONCRETE IND	UG	This is an introductory course for Construction and Concrete Industry Management (CIM) majors. Residential, commercial, heavy, civil, and highway construction is explored including the concrete industry. The role of the contractor, architect/engineer, and owner are covered including contracts, careers, sustainability, and economic importance of the construction industry.	SF
FASHION MERCH	FM	2338	FASHION IN SOCIETY	UG	This course explores the meanings embedded in everyday appearance perceptions and management that result from environmental, socio-psychological, and cultural influences. Course topics reflect about fashion's role in the construction of the self and how appearances shape one's experience in society. Also included is a critical examination of how these meanings influence clothing consumption practices (e.g., buying, using, disposing), which have implications for sustainability concerns associated with the fashion system. An opportunity is provided to connect the theoretical underpinnings of dress to consumption phenomena, from consumerism to minimalism.	SF
Public Administration	PA	4340	ISSUES IN LAW & PUBLIC POLICY	UG	This course examines contemporary legal issues and their relationship to public policy. Emphasis may include environmental protection, sustainability, climate change, voting rights, capital punishment, gun rights, and electronic challenges to privacy rights from the perspective of bureaucratic functions and non-profits.	SF
SUSTAINABILITY STUDIES	SUST	5301	SUSTAINABILITY SEMINAR	G	The seminar in sustainability is an opportunity for students to learn about issues from a wide-ranging set of perspectives. The seminar is, by design, interdisciplinary.	SF
Agriculture	AG	5304	ECONOMICS SUST NTRL RES MGMT	G	This course provides economic tools to analyze sustainable natural resources and environmental issues. It enables students to develop integrative expertise in economic analysis utilizing natural and behavioral sciences. The integrative expertise provides students with the ability to more effectively, efficiently, and sustainably manage natural resources for multiple objectives.	SF

Agriculture	AG	5324	AGROECOLOGY	G	This course will focus on integrative and ecological principles of agricultural production. Emphasis will be on sustainable agriculture, complex systems, production diversity, integrated animal-crop systems, resilience and small producers.	SF
ANTHROPOLOGY	ANTH	3303	APPLIED CULT ANTH	UG	In this course students learn the methods applied cultural anthropologists use to address social problems such as poverty, sustainable development, conflict, climate change, community health, workplace and product design, education, and cultural heritage, as well as the value "thinking anthropologically" has for a wide range of careers.	SF
Communication Design	ARTC	4318	PACKAGE DESIGN	UG	In this course students explore the role of the communication designer by creating well-designed packaging that reinforces brand experience and meets global industry standards. Students design and create packaging through extensive research, ideation, and prototyping. They explore sustainable packaging solutions	SI
Construction Science Mgmt	CSM	3369	RES II: CONSTR BUSINESS PRACT	UG	This course will prepare students in the business practices used by residential land developers and home-builders. Technical skills are applied to the work process inside conventional home-building departments and how those collaborating departments and co-workers operate to become an efficient and sustainable new home-building company.	SF
Construction Science Mgmt	CSM	4368	SUSTAIN & LEAN CONSTR PRACTICE	UG	This course covers environmentally sustainable and lean management practices in building design and construction. The LEED system will be used to guide the course on sustainable practices, which covers aspects of sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, and the CAD design process. It will also cover the integration and relationship between lean and sustainable construction.	SF
ENGLISH	ENG	1321	WRITING FOR SUSTAINABLE CHANGE	UG	This service-learning writing course focuses on supporting sustainable community initiatives in the local area. All writing assignments target real-world audiences in order to advance existing and/or proposed community projects. Writing assignments reflect a variety of genres, including multimodal texts and group-authored project	SF
GEOGRAPHY	GEO	3320	COMMUNITY & REGIONAL PLANNING	UG	This course examines the practice, history and development of community and regional planning in the U.S. focusing on specific methods and legal frameworks of community planning and cultivating sustainable development	SF

HONORS	HON	2304C	NONVIOL SOC CHANGE	UG	This course examines nonviolence as the systematic endeavor to break cycles of violence, poverty, and racism. The course will focus on investigating the ongoing force of such cycles and to formulate effective understandings for subverting and reversing such trends to offer productive contributions toward more sustainable human development.	SF
INTERIOR DESIGN	ID	4324	CONTEMPORARY DES	UG	This course requires students to conduct specialized research in interior design to include design issues such as barrier free environments, medical facilities, historic preservation/adaptive re-use, international interiors, energy issues, sustainable design and design for special needs	SF
Nature & Heritage Tourism	NHT	4301	PLNG & DEVELOPMNT	UG	This course applies basic planning and development principles to the special issues of nature and heritage tourism. Particular emphasis is placed on locational analysis, site analysis, and planning for sustainable use	SF
Agriculture	AG	5365	ANIMAL SCIENCE IN SOCIETY	G	This course provides students with a broad understanding of the role animals have in society, the influences of animal production on economic development, changes in policy and social viewpoints of animal production, and the development of domesticated animals	SI
Anthropology	ANTH	1312	CULTRL ANTHROPLGY	UG	In this course students examine the nature of cultural variation of populations in the present and recent past. Its subjects include social, political, economic, and ideological aspects of human cultures	SI
Anthropology	ANTH	3324	MEX AMER CULTURE	UG	This course provides exploration of Mexican American culture with an emphasis on the US-Mexico transborder region. The course integrates history, anthropology, and ethnic studies to capture the broad diversity of Mexican American experiences. Some of the topics covered include identity, social movements, Chicana feminism, transnational migration, spirituality, and cultural expressions such as visual art, film, music, and performance	SI
Anthropology	ANTH	3331L	SOCIAL IMPACT IN INNOVATION	UG	This course explores the nature of innovation under late capitalism via entrepreneurship. Drawing on the anthropology of business, design, organizations, economics and technology, students will review with a critical lens how people strive for better futures and what anthropology can do to improve these efforts.	SI

Art Studio	ARTS	1304	PHOTO II	UG	This course introduces students to photography's significant role in the construction of social and political narratives through the use of book making and relying on the marriage of digital and traditional methods and skills	SI
Civil Engineering	CE	3360	TRANS PLANNING AND INFRA	UG	This course is an introduction to the planning and design of transportation infrastructure assets. Social, economic, safety, and engineering issues impacting transportation are examined. Interactions between users, vehicles, and the infrastructure will be addressed. The expanding use of technology to enhance transportation systems will be examined.	SI
Criminal Justice	CJ	3322	RACE ETHNICITY & CJ	UG	This course examines the relationship between race/ethnicity and the criminal justice system. Theories of race/ethnicity and crime, the criminal justice system, and social systems including media, politics and economics are examined to form a comprehensive understanding of the social construction of race as it pertains to a racially disproportionate system	SI
Curriculum & Instruction	CI	2310	EDUCATION FOR CHANGE	UG	In this course students will increase their understanding of education, teaching, and learning from a social justice perspective. They will learn about pedagogy as a form of cultural politics and how teachers serve as cultural workers. The course also includes a survey of learning theories and the foundational knowledge bases for schooling, teaching, and learning.	SI
Geography	GEO	3351	HEALTH GEOGRAPHY	UG	This course introduces concepts of health, health care, disease, and illness from a geospatial perspective. The course examines how people and societies interact geographically with the natural, social, and built environment in ways that result in varying degrees of health.	SI
Geography	GEO	4352	AIR QUALITY MGT	UG	This course provides an assessment and analysis of air quality including types, sources, and effects of air pollutants as well as principles governing their dispersal and management. These aspects are analyzed considering physical science, economic, legal and social factors	SI
Geography	GEO	5317	APPLIED HUMAN GEO	G	A focus on the methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the human geographical environment. Emphasis will be on problems pertaining to particular geographic locations or special environmental settings.	SI

Geography	GEO	7352	SOCIAL THEORY SPACE & GEO	D	This course examines key texts and concepts in social and political theory, focusing on theories of space and their mobilization in geographical research. Space and geography are approached with respect to several topics and debates in social theory including structuralism and agency, feminist theory and embodiment, racial formations, assemblage thinking and actor-network theory, hybridity, governance, and scale.	SI
History	HIST	2327	MEXICAN AMERICAN HIST TO 1865	UG	This course is a survey of the economic, social, political, intellectual, and cultural history of Mexican Americans/Chicanx to 1865. Topics the course addresses include: conquest and mestizaje; the rise and fall of native and African slavery, colonial Mexico's relationship to other global economies, the development of New Spain's/Mexico's northern frontier, how gender and power shaped the emergence of Mexican identities, independence movements, mission secularization, Texas independence, the U.S.-Mexico wars, and U.S. expansion and civil war.	SI
History	HIST	2381	AFRICAN AMERICAN HIST TO 1877	UG	This course is a survey of the social, political, economic, cultural and intellectual history of people of African descent in the formation and development of the United States to the Civil War/Reconstruction period. African American History to 1877 includes the study of African origins and legacy, trans-Atlantic slave trade and the experiences of African Americans during the Colonial, Revolutionary, Early National, Antebellum, and the Civil War/Reconstruction Era. This course presents African American history as an integral part of U.S. History.	SI
History	HIST	3372	TX HISTORY SURVEY	UG	A one-semester survey of Texas History which will emphasize political, economic and social development from prehistory to the twentieth century.	SI
History	HIST	3377	HIST COUNTRY MUSIC	UG	This course examines the evolution of country music and how it reflects larger social, cultural, historical economic, political, ethnic, and demographic changes taking place within American society.	SI
History	HIST	4346	MODERN KOREA	UG	This course is a survey of the political, social, economic, and intellectual history of modern Korea, focusing on the external aggression and internal transformation between 1876 and 1910, the impact of the Japanese rule, the split into two Koreas in 1945, and the North/South developments and interactions since then.	SI

History	HIST	4372	LATINO HIST	UG	This course is a survey of the political, economic, and social-cultural role of Latinas/os in the United States	SI
Honors	HON	2306G	AMERICAN COUNTERCULTURES	UG	This course introduces students to major political, economic, social, and cultural developments in American history through the lens of "counterculture." Although this term is usually associated with the 1960s, countercultures have flourished in the US since the mid-nineteenth century. As 60s guru Timothy Leary observed, countercultures bloom wherever and whenever members of a society embrace lifestyles, artistic expressions, and ways of thinking and being that diverge radically from the mainstream. Students will examine how countercultures from the transcendentalists to the hippies and beyond reflect the hopes and anxieties of younger generations and sometimes succeed in bringing about revolutionary change.	SI
MANAGEMENT	MGT	4385	MGT THOUGHT	UG	This course examines how thinking about management has developed over time. It discusses changing social, political, and technological forces challenging managers to think in new ways. Significant management ideas will be examined in their contexts for the purpose of better understanding how to successfully manage for the future.	SI
MARKETING	MKT	3343	PRIN OF MARKETING	UG	This course studies the strategic marketing process, which creates value for consumers and organizations through integrated production and distribution of products. It examines the marketing process in the context of the global, cultural, economic, legal/regulatory environment. It also examines ethical and socially-responsible marketing and the impact of information technology.	SI
MUSIC	MU	3318	WORLD MUSIC CULTURES	UG	In this course students will be equipped with practical and conceptual tools to enhance their enjoyment and understanding of indigenous, folk, classical and popular music traditions around the globe, in their historical, social, political, and spiritual contexts. This course engenders respect for a diversity of cultures through the lens of music.	SI
PHILOSOPHY	PHIL	1320	ETHICS & SOCIETY	UG	Study of ethics, its recent focus on social problems, and new fields of inquiry, including environmental ethics, ethics in business, professions, technology and sport. Also such global issues as poverty, minority rights, and stem cell research. Emphasis on development and application of principles of critical thinking and moral reasoning	SF

Public Health	PH	5303	SOCIAL DETERMINANTS OF HEALTH	G	This course explores the social ecological conditions which impact health and quality of life among various communities. Public health impact of socioeconomic stability, education access and quality, healthcare access and quality, neighborhood and built environment, and social and community context will be analyzed. The link between social determinants and the U.S. Healthy People Initiative will be examined.	SI
SOCIAL WORK	SOWK	4302	HIP HOP & SOCIAL JUSTICE	UG	In this course, Hip-Hop culture is introduced within the context of human development over the life course with an emphasis on positive individual and community well-being. Cultural dynamics are viewed alongside art's role in the social and political history of the United States including issues of equity and justice	SI
SOCIAL WORK	SOWK	4310	DIVERSITY	UG	This undergraduate course focuses on knowledge and skills necessary for effective, ethical, and just practice, exploring interpersonal and institutional dynamics of racism, sexism, heterosexism, homophobia, classism and other forms of oppression and their effects on providing social services to diverse populations.	SI
SOCIAL WORK	SOWK	5322	ADV SOC POL & JUST	G	This advanced course, a study of social legislation affecting disadvantaged persons, emphasizes policy analysis, values, and advocacy through studying social policy history; developing, implementing, and evaluating policy; and influencing social and economic justice	SI
SOCIOLOGY	SOCI	1310	INTRO SOCIOLOGY	UG	A survey of the basic concepts in sociology including social organization, culture, socialization, groups, and human population leading to the development of a sociological perspective of human behavior	SI
SOCIOLOGY	SOCI	3365	SOCIETY & ENVIRONM	UG	This course addresses issues emerging from the reciprocal relationship between society and its environment. The impacts of social and economic organization, social class, and government policies on the physical and social milieu will be examined in order to produce a better understanding of social and environmental interactions.	SF
SOCIOLOGY	SOCI	3390	TECHNLGY & SOCIETY	UG	The subject of this course is the relationship between technologies and social institutions. Topics covered may include but are not limited to theories of sociotechnical change, diffusion, social constructivism, modernity and rationalism, and case studies of transformative technologies such as the clock, the car, and the birth control pill.	SI

SOCIOLOGY	SOCI	5350	SEM IN GENDER	G	This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations.	SI
SOCIOLOGY	SOCI	5368	ENVIRONMENTAL SOCI	G	This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu.	SF
BIOLOGY	BIO	4374	PRINCIPLES OF ZOO MANAGEMENT	UG	This course is designed to introduce the principles of captive animal management within conservation and education-based zoos. Zoo management requires a broad understanding of the life history and biological needs of many different species; we will explore the ways modern zoos address these needs and the ways in which future zoos could address them more effectively. Specific topics will include animal husbandry, welfare, nutrition, and behavior as well as environmental enrichment, captive breeding, conservation, zoo regulatory frameworks, ethical concerns, and zoo careers.	SI
Geography	GEO	5313	ENVIRONMENTAL STUDIES	G	A critical analysis of the major causes of environmental change and human response to <u>environmental problems</u> .	SI
Geography	GEO	5322	INTERPRETIVE ENVIRONMENTAL GEO	G	Students learn to use geographic theories and concepts to provide holistic and thematic interpretation of environmental information, as specified by interpretive principles. Students also learn advanced use of traditional and digital presentation techniques and research methods, which include audience assessment and program evaluation	SI
Geography	GEO	7370	ADV SMNR ENVR GEO	D	This research seminar focuses on the methods, approaches, issues, and concepts of major themes in environmental geography. Special emphasis will be placed on theoretical and conceptual understandings of how humans interact with the environment from a geographical perspective	SI
History	HIST	3371A	URBAN AMERICA	UG	This course surveys the changing functions, scale, and quality of urban society in the United States. Special emphasis will be placed upon urban politics, or how changing demographics, physical environments, public and private institutions, and economies both grew out of and gave rise to political tensions between Americans	SI

INTERIOR DESIGN	ID	4324	CONTEMPORARY DES	UG	This course requires students to conduct specialized research in interior design to include design issues such as barrier free environments, medical facilities, historic preservation/adaptive re-use, international interiors, energy issues, sustainable design and design for special needs	SF
PHILOSOPHY	PHIL	3323	ENVIRONMENTAL ETH	UG	Study of ethical issues associated with the environment including nature, use, preservation, and restoration of the environment.	SI
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PSYCHOLOGY	PSY	3334	PSYCHOLOGY OF HUMAN DIVERSITY	UG	Explanations about how the environment, genetics and culture shape human differences, and how these differences are linked to world progress and understanding are addressed	SI
PUBLIC ADMINISTRATION	PA	5355	ENVIRONMENTAL POLICY	G	This course will introduce students to the public policy process and the details of U.S. environmental policy and administration. Problems and policies dealing with air, water, solid waste, hazardous waste, energy use, natural resources, climate change, sustainability, and global environmental governance will be discussed.	SF
Public Health	PH	3301	ENVIRONMENTAL HEALTH	UG	This course is an examination of the ecological impact resulting from contemporary sociopolitical action and its resulting influence on human health.	SI
RECREATION	REC	1330	INTRO TO OUTDOOR RECREATION	UG	This course provides students with an overview of the role the natural world plays in recreation and leisure services. The course will focus on values of outdoor recreation, adventure recreation, environmental impact, and the role of government in the provision and protection of outdoor recreation programs and resources.	SI
SOCIOLOGY	SOCI	3334	MIND AND SOCIETY	UG	This course provides an overview of mental health and illness with an emphasis on how social environments and structures influence mental well-being. The course explores the causes and consequences of mental health disorders. The course examines policies and programs aimed at improving mental health in society.	SI
TECHNOLOGY	TECH	2340	ENVIRONMENTAL TECHNOLOGY I	UG	This course emphasizes the fundamental chemical, biological, ecological and hydrological principles, and mass and energy balances involved in solving environmental problems. Specific environmental areas covered include water, water quality and wastewater treatment. Environmental regulations and testing as pertinent to water will be covered.	SI

BIOLOGY	BIO	4317	INTERPRETIVE BIOL PROGRAMMING	UG	In this course, students will explore the methods and principles used by the National Park Service, museums, environmental centers, and state park systems to interest a variety of audiences as well as interpret biology and natural environments effectively. Students will practice skills in both personal and non-personal interpretation by creating science outreach programs, interpretive literature, brochures, path waysides, and other interpretive media. Service-learning is an integral and mandatory part of this course.	SI
BIOLOGY	BIO	5317	INTERPRETIVE BIOL PROGRAMMING	G	In this course, students will explore the methods and principles used by the National Park Service, museums, environmental centers, and state park systems to interest a variety of audiences as well as interpret biology and natural environments effectively. Students will practice skills in both personal and non-personal interpretation by creating science outreach programs, interpretive literature, brochures, path waysides, and other interpretive media.	SI
BIOLOGY	BIO	5374	PRINCIPLES OF ZOO MANAGEMENT	G	This course is designed to introduce the principles of captive animal management within conservation and education-based zoos. Zoo management requires a broad understanding of the life history and biological needs of many different species; we will explore the ways modern zoos address these needs and the ways in which future zoos could address them more effectively. Specific topics will include animal husbandry, welfare, nutrition, and behavior as well as environmental enrichment, captive breeding, conservation, zoo regulatory frameworks, ethical concerns, and zoo careers.	SI
ENGINEERING	ENGR	3320	ENVIRONMENTAL ENGINEERING	UG	This course is an introduction to environmental engineering. Topics include treatment of water, wastewater, air pollution, solid waste pollution, and hazardous materials. Standard test procedures for evaluating physical, chemical, and biological treatment processes are introduced. The use of technology to manage treatment processes and facilities will be introduced.	SI
ECONOMICS	ECO	3304	ENVIRONMENTAL ECON	UG	Economic analytical tools and concepts are used to understand how the environment, economy, and businesses interact and the importance of public policy in shaping this interaction. Natural resources as inputs to production are explored. Current policy issues and environmental problems provide illustration and application	SI

GEOGRAPHY	GEO	2310	GLOBAL ENVIRONMENTAL CHANGE	UG	This course introduces the global perspective to examine Earth's environment and its systems, dynamics, and risks. Students use principles of scale, space, and distributions to analyze the ~~changes in the environment~~	SI
GEOGRAPHY	GEO	3305	CLIMATOLOGY	UG	Introduction to the elements of climate and their use in environmental monitoring and analysis	SI
GEOGRAPHY	GEO	3313	NAT RES USE & MGT	UG	This course uses environmental concepts at all geographic scales to identify and analyze patterns and processes of resource use, and discusses management strategies to solve present and future concerns related to natural resources.	SI
GEOGRAPHY	GEO	4313	ENVIRONMENTAL MANAGEMENT	UG	This course provides an analysis of the causes of environmental problems, from local to global scale, and the evaluation of attempts at management and solutions of those problems. Emphasis will be placed on the role that geography can play in environmental degradation and ~~management~~	SI
GEOGRAPHY	GEO	4322	INTERPRETIVE ENVIRONMENTAL GEO	UG	Students learn principles, themes, and techniques for effective interpretation of environmental information to audiences ranging from park visitors to professional conferences. Interpretive themes are drawn from geographic concepts including the physical and cultural landscapes and cultural ecology	SI
GEOGRAPHY	GEO	4334	GROUNDWATER RESOURCES	UG	This course examines, within a geographical perspective, the major concepts and principles that control groundwater availability and use. Students will analyze aquifer characteristics that determine water quantity and quality. Constraints on aquifer use including environmental, economic, societal, and legal factors will be analyzed for optimizing aquifer management and water-use policy.	SF
GEOGRAPHY	GEO	4339	ENVIRONMENTAL HAZARDS	UG	Analysis of environmental hazards with respect to human use of the land. Includes geologic hazards and problems caused by floods and meteorological ~~conditions~~ .	SI
GEOGRAPHY	GEO	5316	APPLD PHYSCL GEO	G	This course is a survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings.	SI

African American Studies	AAS	2310	INTRO AFRICAN AMERICAN STUDIES	UG	Course provides an overview of black culture in America from an interdisciplinary approach, employing scholarship from history, literature, music, visual and performing arts, folklore, religion, sociology, psychology, philosophy, economics, and political science. It introduces epistemological considerations, theories, and methods that form the field of African American and African Diaspora Studies	SI
BIOLOGY	BIO	4331	HUMAN DIMENSIONS OF WILDLIFE	UG	Humans play a role in nearly every aspect of wildlife and fisheries conservation. This course will provide students with principles, concepts, and case studies to understand how the human experience (e.g., culture, politics, economics) influences conservation outcomes. Students will also have an opportunity to integrate human dimensions into local decision-making	SI
BIOLOGY	BIO	5331	HUMAN DIMENSIONS OF WILDLIFE	G	Humans play a role in nearly every aspect of wildlife and fisheries conservation. This course will provide students with principles, concepts, and case studies to understand how the human experience (e.g., culture, politics, economics) influences conservation outcomes. Students will also have an opportunity to integrate human dimensions into local decision-making.	SI
BIOLOGY	BIO	7331	HUMAN DIMENSIONS OF WILDLIFE	D	This course will provide principles, concepts, and case studies to understand how the human experience (e.g., culture, politics, economics) influences conservation outcomes. Students will have an opportunity to integrate human dimensions into decision-making.	SI
ECONOMICS	ECO	2315	PRIN MACROECON	UG	This course provides an introduction to the macroeconomics of a modern industrial society. Emphasis is placed on the analysis of national income, economic stability, fiscal policy, money and banking, economic growth, and international trade.	SI
Nutrition & Foods	NUTR	5372	ADV NUTR POL ETHIC	G	This course considers the disparate influences on the US food supply, on federal and state nutrition and food-related policies, and ultimately, on individual dietary intake. Potential influences, including current state and federal policies, industry, interest groups, and the media, driven by economics and ethical consideration, will be addressed.	SI
BIOLOGY	BIO	1331	ORGANISMAL BIOLOGY	UG	This course provides science majors with a foundation in organismal biology, Mendelian and population genetics, evolution and ecology. Topic include: patterns of inheritance, genetics, evolution, speciation, phylogenetics, and behavioral population, community, and ecosystem ecology.	SI

Curriculum & Instruction	CI	2311	EDUCATION AND EQUITY	UG	This course will examine elementary education from a sociocultural, sociopolitical, and sociohistorical lens to reveal the need for equity in the current American schooling system. Students will question, analyze, and evaluate key issues and connections between schooling, community, society and policy.	SI
HISTORY	HIST	3373C	HIST RURAL WOMEN	UG	This course surveys rural women in the United States from the founding of the nation to the present. Topics include women's work in the agricultural economy, female influence in community and agrarian organizations, and the relationship between rural and government services from regional, national, and global perspectives.	SI
HONORS	HON	2301A	WRIT TO CHG WORLD	UG	This course examines communication through writing to promote positive change in the world. This course will enable students to communicate their own arguments appropriate to the subject, occasion and audience. Students will choose a global issue on which to focus their writing, and perform related community service	SI
Physical Fitness & Wellness	PFW	1301	BEHAVIORAL PFW	UG	Students will explore the role of physical activity in a healthy and productive society. The course focuses on social and cultural influences on motivation, values and beliefs related to physical activity, as well as the impact of physical activity on individual, community, and population	SI
PUBLIC HEALTH	PH	2340	COMMUNITY HEALTH	UG	This course acquaints students with issues, trends, developments, and principles in community health. The course also provides an overview of selected topics, such as epidemiology, community organization, and program planning.	SI
THEATRE	TH	3305	THEATRE IN THE COMMUNITY	UG	This course combines community service (creating theatre for or with non-profit community organizations that serve at-risk populations) with readings, discussions, and collaboration on societal applications of performing arts.	SI
THEATRE	TH	3339	LATINX THEATRE AND PERFORMANCE	UG	This course explores Latinx theatre that addresses the highly contested and geopolitical border that separates the US from Latin America. It focuses on how Latinx theatre creates counternarratives within the country. Students will study the borderlands as a place of latinidades, the multiple community voices of the region. Throughout the semester they will read dramatic, theoretical, and historical texts and examine the work of various border-crossers in the western hemisphere.	SI

BIOLOGY	BIO	7327	ECOLOGICAL IMMUNOLOGY	D	This course explores the roles of immunity in natural ecosystems, focusing on central concepts in ecological immunology. From viruses to parasites, pathogenic threats are omnipresent. As epizootic outbreaks become more common, it is important to integrate immunological knowledge with traditional ecological perspectives	SI
CIVIL ENGINEERING	CE	1210	INTRO TO SMART INFRASTRUCTURE	UG	This course is an overarching study of municipal and private infrastructure and the use of modern technology and techniques to monitor and manage these assets. Topics and case studies examine transportation, water resources, utilities, and other construction projects. General topics related to the civil engineering profession are also covered	SI
CIVIL ENGINEERING	CE	4323	PHYS & CHEM TREATMENT OF WATER	UG	This course is a study of the physical and chemical processes used to clean water and wastewater. The use of sensors to monitor treatment processes is also addressed	SI
GEOGRAPHY	GEO	3434	WATER RESOURCES	UG	This course analyzes within a geographical perspective, the formation, use, conservation, and management of water resources. The students will develop a working knowledge of the hydrologic, water quality, legal, economic, political, and societal factors that determine water availability, hazards, use, demand, and allocation.	SF
GEOGRAPHY	GEO	4341	WATER POLICY	UG	This course covers the evolution of water policy from the awareness of issues, through the political and legal process, to the implementation of specific plans, programs, and facilities.	SI
GEOGRAPHY	GEO	4356	URBAN INFRASTRUCTURE MGT	UG	This course examines life-cycle management of technology-enhanced urban infrastructure. Buildings, transportation systems, water and waste treatment facilities, and energy and communication grids are considered. Sensor data and other factors are analyzed to establish repair and rehabilitation strategies to improve an asset's functionality, safety, and economic value	SI
GEOGRAPHY	GEO	5334	APPL WATER RES	G	Application of techniques employed in water management including flood hazards, water supply assessment, and water management strategies. Students will apply principles to specific watersheds and water problems including the analysis of various physical, land use, and legal parameters	SI
GEOGRAPHY	GEO	5370	SEMINR APPLD PHYS	G	Critical analysis of theories, models, and techniques of physical geographic research with the focus on application to real-world problems	SI

GEOGRAPHY	GEO	5395	PROBLEMS IN APPLIED GEOGRAPHY	G	Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the four graduate tracks: physical-environmental, urban and regional planning, geographic education or GIScience.	SI
GEOGRAPHY	GEO	1305	METEOROLOGY	UG	An introduction to atmospheric science providing information on the properties of the atmosphere, the scientific principles that govern weather and climate, and interactions between the atmosphere and the other components of the Earth system.	SI
BIOLOGY	BIO	5351	GLOBAL CHANGE BIOLOGY	G	This course will give an in-depth analysis of the major global changes occurring in present day biological systems. The focus of the course will be on climate change, invasive species, eutrophication, land use change and biodiversity loss. Emphasis will be placed on peer-reviewed literature to better understand how biologists study processes at the global scale. Potential solutions to these global challenges will also be discussed.	SI
BIOLOGY	BIO	7360	KARST HYDRO & GMRP	D	An introduction to, and advanced understanding of, karst hydrogeology, geology, and geomorphology, with emphasis on field and theoretical applications of this information to the study of karst systems, and recognition and understanding of karst landforms at the surface and their relationships with subsurface processes.	SI
BUSINESS ADMIN	BA	2310	INTRO BUS GLOB ENV	UG	The course introduces the modern business enterprise with an emphasis on the interdependence of the business functions in a global environment. Topics include the cross border impacts of culture, politics, and law on trade, investment, marketing, management, and accounting and financial systems.	SI
FASHION MERCH	FM	2337	GLOBAL MANUFACTURING	UG	This course is an introduction to the global supply chain in the fashion industry with an overview of the impact of cultural, political, and economic systems on the manufacturing and logistics of fashion products.	SI

CONSTRUCTOIN SCIENCE MGMT	CSM	5366	SOILS IN CONSTRUCTION	G	This course provides students with an in-depth examination of geotechnical principles as they apply to soil construction activities. Topics covered include geological formations of natural soils, soil mineralogy, soil sampling, classification, soil testing, dewatering, safety and sustainability in soil construction, soil contamination and remediation, recycled content used in soil construction and innovative technologies in soil stabilization.	SF
INTERIOR DESIGN	ID	2325	MATERIALS SOURCES	UG	This course is an in-depth study of materials and finishes specified for residential and commercial interiors. Material properties, fabrication, installation methods, applications, sustainability, maintenance requirements and sourcing are addressed.	SF
PUBLIC ADMIN	PA	5351	URBAN SUST POLICY	G	This course examines the basic components of urban transportation and land use policy. In addition to building an understanding of the historic foundation of urban policy and planning, students explore the underlying concepts related to sustainability to analyze underlying tensions and potential connections across policy spheres.	SF
SUSTAINABILITY STUDIES	SUST	5105	PRAC IN TEACHING	G	This course is an introduction to key concepts and practices in the teaching of college courses. It provides regular in-service training and planned periodic evaluations of instructional responsibilities. It is required for first-year teaching and instructional assistants in the MA and MS in Sustainability programs	SI
TECHNOLOGY	TECH	3340	ENVRN TECH II	UG	This course covers air pollution, solid waste and hazardous waste management, sustainability and risk management. Environmental regulations and testing as pertinent to soils, sediments, residual and air will be covered.	SF
BIOLOGY	BIO	4319	CON BIO RESOURCE	UG	This course is an introduction to the protection and sustainable use of populations, species, habitats, and ecosystems. Course also includes study of the methods used to analyze biodiversity and population regulation.	SF
BUSINESS LAW	BLAW	4310	SUSTAINABLE DEVELOPMENT & LAW	UG	This course examines the role of law and policy in balancing economic, environmental, and social issues for current and future generations.	SF

CIVIL ENGINEERING	CE	7372	WATER CLIMATE AND DISASTERS	D	This course introduces the interactions between water and climate systems and their relationship with occurrences, magnitude, and frequencies of natural disasters with a focus on climate impacts on hydrology, water resources, and extreme events (e.g., floods, drought, heat waves, landslides, and wildfires). This course covers disaster risk management and adaptation strategies for a sustainable and resilient natural environment and human society against weather and climate extreme disasters.	SF
CONSTRUCTOIN SCIENCE MGMT	CSM	5368	SUSTAINABLE CONSTRUCTION	G	This course examines a breadth of sustainable construction techniques, including material production, material selection, sustainable design, the ecology model for design, life cycle cost analysis, and sustainable construction. The sustainable construction techniques are discussed relative to advanced sustainable framing, waste minimization techniques, LEED, and green roofs.	SF
INDUSTRIAL ENGINEERING	IE	5320	MODEL MFG SYSTEMS	G	This course covers the methods for modeling and analyzing manufacturing systems. Critical manufacturing issues that are addressed by these models include sustainable production systems, material handling systems, scheduling, and supply chains	SF
Matrls Sci, Engnr, ComrcIztn	MSEC	7395J	CONCRETE MTLs AND DURABILITY	D	This course delves into a comprehensive coverage of Portland cement concrete materials as well as resilient and sustainable materials used for building and transportation infrastructure. Topics include cement and aggregate properties, chemical and mineral admixtures, mixture proportioning, concrete microstructure, concrete durability, long-term performance, durability prediction and modeling, durability of alternative cement, multi-scale assessment, and dimensional stability.	SF
PHILOSOPHY	PHIL	7323	ENVIRON ETHICS	D	Examination of the ethical implications of environmental use and management policies and practices, with emphasis on sustainable aquatic resources.	SF
ANTHROPOLOGY	ANTH	3309	CULTURS THR FILM	UG	Through films, lectures, and discussions, students explore the various ways that ethnographic film interprets the cultural environment and social interactions of small-scale cultures around the world. We will also discuss anthropological interpretations of how historically U.S. (American) culture has dealt with concepts of the "other" and supernatural phenomena through film	SI

ANTHROPOLOGY	ANTH	3331E	ANTHROPOLOGY AND THE LAW	UG	This course explores the role of law as an instrument of social change, justice, and human rights. Topics include law as a social system, understanding legal reasoning, identifying key actors, how law influences change, how law is depicted in popular culture, and how law influences anthropological research.	SI
HISTORY	HIST	4362	PEACE/NONVIOLENCE MOVEMENTS	UG	This course explores the origins, development, and impact of peace and nonviolence movements globally. It examines the roles that religion, class, gender, race, ethnicity, and nationalism have played in shaping social and political perceptions of injustice and public attitudes toward movement goals.	SI
HONORS	HON	2360C	AMERICA IN SIXTIES	UG	This course in the history of American social and protest movements from the end of Reconstruction through Occupy focuses in particular on the movements of the 1960s - the Civil Rights Movement, the New Left, the Women's and Homosexual Liberation Movements, and the Counterculture - and their enduring legacies in contemporary society.	SI
PHILOSOPHY	PHIL	4360C	NONVIOLENCE AND SOCIAL CHANGE	UG	In this course students will study themes and concepts related to nonviolence, sustainability, and social change. Participants will critically examine the works of thinkers such as Thoreau, Addams, Tolstoy, Gandhi, King, and Chavez.	SF
PHILOSOPHY	PHIL	4360J	ENVIRONMENTAL JUSTICE	UG	This course explores the interplay between questions of justice, ethics, and the environment. The course will take an issues-based approach to examining multiple understandings of justice through exploring some of the dimensions by which environmental issues are interwoven with other social issues.	SF
PHILOSOPHY	PHIL	5333	FEMINIST THEORY	G	This course serves as an in-depth introduction to the various theoretical frameworks that have and continue to inform scholarship in feminism. Participants explore differences and commonalities between distinct feminist theoretical traditions (liberal feminism, Marxist feminism, post-structuralism, psychoanalysis, queer theory) and learn to critically engage accounts of identity, difference, social movement, globalization, nationalism, and social change.	SI

PHILOSOPHY	PHIL	5360J	ENVIRONMENTAL JUSTICE	G	This course explores the interplay between questions of justice, ethics, and the environment. The course will take an issues-based approach to examining multiple understandings of justice through exploring some of the dimensions by which environmental issues are interwoven with other social issues.	SF
PSYCHOLOGY	PSY	5360P	PSYCH OF CULTURE AND DIVERSITY	G	This course provides a graduate level introduction to psychological theories and methods that examine the links between culture and human behavior, affect and cognitions. The course explores the relevance of these links to life development, mental health, social and gender identity, and sexuality. The student is expected to gain critical thinking skills in evaluating the validity of psychological knowledge within a cultural context. More importantly, the students are expected to gain an appreciation and understanding for cultural variation in human behavior across different cultures and an enhanced awareness and ability to work with a culturally diverse and multicultural population.	SI
PUBLIC HEALTH	PH	5303	SOCIAL DETERMINANTS OF HEALTH	G	This course explores the social ecological conditions which impact health and quality of life among various communities. Public health impact of socioeconomic stability, education access and quality, healthcare access and quality, neighborhood and built environment, and social and community context will be analyzed. The link between social determinants and the U.S. Healthy People Initiative will be examined.	SI
SOCIOLOGY	SOCI	3331	SOCIAL MOVEMENTS	UG	This course examines social movements – the repeated display of collective action outside sanctioned political channels to bring about social change. Different theoretical approaches to social movements are reviewed to determine how movements organize, attract members, utilize resources, ideologically frame their issues, and engage in nonconventional tactics to influence public policy.	SI

SOCIOLOGY	SOCI	3375Q	CLIMATE CHANGE AND SOCIETY	UG	This course will focus on the ways in which social institutions and social structures play a foundational role in climate change, but also how these social intuitions, structures, and processes can adapt to solve climate change problems. Climate change is an existential threat to humans. There is a strong consensus among physical scientist that the burning of fossil fuels by humans is the main driver of climate change. Sociology is uniquely situated to investigate and understand the social ramifications of climate change. The course will also focus on issues of climate change and inequality and environmental justice.	SF
AGRICULTURE	AG	4383	AG RES ECONOMICS	UG	This course introduces economic concepts and institutional factors relating to the use of agricultural resources such as land, air, water, energy, space, etc. Emphasis is on the conservation of resources and the environmental interactions resulting from the use of natural resources for agricultural production.	SI
BIOLOGY	BIO	3371	MARINE RESOURCES	UG	This course examines the exploitation and fragility of the marine environment and the economic importance of marine resources. Topics to be examined include ocean ownership, overfishing, aquaculture, shark finning, whaling, ocean mining, marine transportation, tourism, pollution, harvesting energy from the ocean, and the importance of creating marine reserves	SI
CIVIL ENGINEERING	CE	5390	INFRA SYSTEMS ANALYSIS	G	This course is an advanced study of the planning, operation, and maintenance of municipal and commercial infrastructure assets. Political, social, economic, environmental, and engineering influences on infrastructure systems are addressed. Use of technology to enhance the safety and economic value of the infrastructure is also investigated.	SI

COMMUNICATION STUDIES	COMM	5340E	SCI HEALTH ENVIRONMENT RHET	G	This graduate course explores the history, theories, and applications of rhetoric as it pertains to science, health and the environment. These fields are both interrelated and distinct in rhetorical studies. For instance, while environmental rhetoric includes the rhetorical construction of "wilderness," it also includes studies of environmental justice & health disparities across gendered/classed/racial lines as well as debates over climate science & scientific consensus. Students will gain a broader understanding of rhetorical theory and how to complete rhetorical critique. Students can also expect to read academic articles, lead class discussions, and engage in independent academic research.	SI
GEOGRAPHY	GEO	4314	RIVER BASIN MANAGEMENT	UG	The purpose of this course is to study principles and practices of large-scale river basin management. Emphasis is on integrated management of land and water resources, including economic development and environmental protection issues.	SI
GEOGRAPHY	GEO	4350	SOLID WASTE PLANNING & MGT	UG	A survey of the methods of solid waste disposal including waste storage, collection, transportation and disposal, and their short-and long-range effects on the environment. A practical course in the planning, implementation, and management of alternate methods of sanitary waste disposal.	SI
GEOGRAPHY	GEO	5312	MANAGING URBANZTON	G	Survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design.	SI
GEOGRAPHY	GEO	5329	HISTORICAL GEO ENVIRONMENT	G	This course examines the evolution of environmental problems using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental challenges related to urbanization and climate change. Students in this class will engage with scholarship related to historical geography of the environment and develop original research related to environmental change.	SI
GEOGRAPHY	GEO	7305	HISTORICAL GEO ENVIRONMENT	D	This course examines the evolution of environmental problems using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental challenges related to urbanization and climate change. Students engage with scholarship related to historical geography of the environment and develop original research related to environmental change.	SI

GEOGRAPHY	GEO	7318	GIS IN ENVIRON GEO	D	This course examines the nature of environmental problems and explores the potential of GIS for environmental modeling and management. The conceptual basis for using GIS as well as the framing of environmental research problems will be covered.	SI
GEOGRAPHY	GEO	7341	URBAN ENVIRONMENT	D	Students in this course will critically engage with scholarly and governmental research relating to urban environments, urban environmentalism, and urban environmental management. Emphasis is placed on students developing and executing a unique, topically relevant research project aimed at improving our understanding of the way in which human-environment interaction influences, and is influenced by, urban geography and the urban experience	SI
GEOLOGY	GEOL	4330C	ECONOMIC GEOLOGY	UG	This is a survey of the geology of economic resource derived from the Earth including metals, nonmetals, energy related resources and ground water. Topics include genesis of economic deposits, methods of prospecting, methods of extraction, refining, and environmental impact	SI
HISTORY	HIST	3375A	US WORKING CLASS HISTORY	UG	Examines topics in US working class history with emphasis on the experiences of organized and unorganized workers in the context of their social, cultural, political, and workplace environments and the role of the working class in shaping US society	SI
ENGLISH	ENG	3346	W STDS II CON RGN	UG	The second of a two-course sequence in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest, emphasizing regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy, politics, popular culture, religion, social science, and technology	SI
FASHION MERCH	FM	4339	FASHION ECONOMICS	UG	Economic perspective of textile products, production and global sourcing with emphasis on <u>U.S. fashion industries</u>	SI
ANTHROPOLOGY	ANTH	5336	COMMUNITY RES PROJ	G	This course gives students the opportunity to conduct hands-on anthropological research on a <u>variety of topics in local communities</u> .	SI
LATINA/O STUDIES	LATS	4325	LATINA/O IDENTITY & SOCIAL CHG	UG	This course examines the social continuities, sociopolitical and geographic complexities, and diversities of Latina/os in the U.S. It focuses on crucial issues confronting Latina/os such as the role of race, culture, identity, community development, and leadership practices influencing public policy.	SI

BIOLOGY	BIO	7346	CONSERVATION BIOL	D	Examination of the alteration of habitats and associated biological changes threatening the continued existence of species and basic ecosystems. Topics include conservation ethics, working paradigms, levels and loss of global biodiversity, conservation at population and ecosystem levels, restoration ecology, endangered species biology and conservation laws.	SI
BIOLOGY	BIO	7360R	CMNTY & ECOSYS ECO	D	Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions	SI
BIOLOGY	BIO	7102	SEMINAR IN AQUATIC RESOURCES	D	This course is an interactive discussion of timely issues and problems, designed to introduce students to the range of scientific, socioeconomic and policy issues likely to be encountered within the field of aquatic resources.	SI
CIVIL ENGINEERING	CE	4320	BIO WASTEWATER MGT	UG	This course examines biological treatment processes for domestic and industrial wastewater. The use of sensor technologies to monitor the effectiveness of a treatment option is also addressed.	SI
CIVIL ENGINEERING	CE	4371	HYDROLOGY	UG	This course is an examination of surface and groundwater hydrology. Topics include the hydrologic cycle, groundwater flow, wells, storm water management practices, open channel flow, stream flow measurements, hydrologic routing, modeling, probability, and applications	SI
CIVIL ENGINEERING	CE	5320	WATER QUALITY MANAGEMENT	G	This course is an advanced study of the processes used to monitor, measure, and manage water quality for municipal, commercial, or industrial use. The use of technology to enhance water quality management processes is also investigated.	SI
DIVERSITY STUDIES	DVST	3301	INTRO TO DIVERSITY	UG	The course is a general, multi-disciplinary and comparative survey of U.S diversity issues. It highlights the traditional minorities, such as African, Latino/a American, Native, and Asian Americans, as well as European American ethnic groups. It also explores issues related to religion, age, sexual orientation, gender identity, and physical ability/disability.	SI
DIVERSITY STUDIES	DVST	3320	INTRO TO GLOBAL DIVERSITY	UG	This course provides an understanding of relationship between U.S and other nations in terms of economics, politics, and culture. Students will examine how colonialism shaped developed and underdeveloped nations, investigate grassroots activism in response to globalization and will examine how policies formulation by one country has consequences for other countries.	SI

DIVERSITY STUDIES	DVST	5320	GLOBAL ISSUES IN DIVERSITY	G	Course provides framework for analyzing diversity globally. Examines how globalization acts to shape and re-shape ethnic identity and ethnic antagonism. Course investigates how the shaping and re-shaping of ethnic identity influences immigration policy, reproductive rights, LGBTQ rights, and healthcare delivery.	SI
AGRICULTURE	AG	2383	INTR TO AG ECO	UG	The role of agriculture in the general economy; the study of basic economic concepts with their application to the agricultural firm; the structure and operation of the marketing system; the functional and institutional aspects of agricultural finance; international trade; and government farm programs.	SI
AGRICULTURE	AG	3302	HERBACEOUS PLANTS	UG	This course will include the identification, selection, use, and management of annuals, perennials, herbs, and ornamental grasses in the landscape. Each student will learn irrigation, fertilization, pruning, and other cultural needs of such plants. The laboratory will complement lecture.	SI
AGRICULTURE	AG	3304	PROP HORT PLANTS	UG	Principles and practices of propagating ornamental plants, vegetables, and fruits by sexual and asexual methods including germination of seed, layerage, graftage, division, cuttage, bulbs, corms, and other vegetative plant structures. Study of physical, physiological and environmental factors affecting propagation of ornamental plants.	SI
AGRICULTURE	AG	3308	ORGANIC GARDENING	UG	This course introduces the principles and practices of basic gardening using organic methods. Topics include an overview of soil preparation, warm and cool season crops, propagation of plants, and weed, insect, and disease identification and management.	SI
AGRICULTURE	AG	3319	INTERNATIONAL FOOD	UG	This course presents the food and fiber system from an international perspective. Analysis of food production and consumption patterns under different world economic systems, causes of surpluses and shortages throughout the world; the role of trade in solving food and agricultural problems. Global outlook and situation for food and fiber.	SF
AGRICULTURE	AG	3353	AGRI STR & ENVIRON	UG	Principles and practices associated with structural components, selection, materials of construction, heat and moisture control, and the environmental issues of waste management systems	SI

AGRICULTURE	AG	3355	INTERNATIONAL AGRI TRADE	UG	This course focuses on economic forces associated with trade in food and agricultural products between the United States and other countries. The course covers gains from trade, agricultural trade policies (of exporters and importers), exchange rates, and multilateral trade negotiations. The course also explains how economic principles and analytical techniques are applied to international trade and multi-national markets of agricultural products.	SI
CIVIL ENGINEERING	CE	7320	WATER QUALITY MANAGEMENT	D	This course is an advanced study of the processes used to monitor, measure, and manage water quality for municipal, commercial, or industrial use. The use of technology to enhance water quality management processes is also investigated.	SI
CIVIL ENGINEERING	CE	7323	Soil and Groundwater Remediation	D	This course covers various remediation technologies to clean up contaminated soil and groundwater. Topics include, but are not limited to, subsurface hydrology, contaminant fate and transport, physicochemical and biological remediation, monitoring, and brownfield redevelopment. The significance of subsurface contamination and importance of environmental health will also be addressed.	SI
CIVIL ENGINEERING	CE	7324	Water Reuse	D	This course explores the critical role of water reuse in sustainable resource management, addressing both the engineering principles and interdisciplinary challenges involved. Students will examine water treatment technologies, regulatory frameworks, and the environmental and economic impacts of water reuse across various sectors. Case studies will highlight applications in agriculture, industry, and urban environments, with a focus on emerging technologies and innovative solutions. This course fosters cross-disciplinary collaboration and provides the technical and scientific foundations needed to advance water reuse initiatives in diverse contexts.	SI
CIVIL ENGINEERING	CE	7370	Urban Stormwater Management	D	This course examines the planning, design, operation, and maintenance of urban stormwater management systems. Political, social, economic, and environmental influences on such systems are examined. The impact of extreme events on stormwater systems and the urban landscape are also considered.	SF

CIVIL ENGINEERING	CE	7390	Infrastructure Systems Analysis	D	This course is an advanced study of the planning, operation, and maintenance of municipal and commercial infrastructure assets. Political, social, economic, environmental, and engineering influences on infrastructure systems are addressed. Use of technology to enhance the safety and economic value of the infrastructure is also investigated.	SI
CIVIL ENGINEERING	CE	7394	Climate Change Impact and Adaptation in Civil Engineering	D	This course provides an introduction to global and regional climate change processes, drivers, and impacts. Case studies are presented for the regional impacts of climate change on extreme weather, water availability, and energy and transportation systems. Students are introduced to a variety of natural hazards and possible mitigation approaches as well as principles of design, including adaptable design and design for failure. Students select the problems they want to solve and develop their projects. Students carry out exercises with relevant data sets, write critiques of key issues, and complete a focused term project.	SI