

## Sustainability Course Inventory Key

**STARS Definitions:**

**Sustainability Course**

Sustainability courses are courses in which the primary and explicit focus is on sustainability or on understanding or solving one or more major sustainability challenges (e.g. the course contributes toward achieving principles outlined in the Earth Charter). For a complete definition, visit the STARS 2.1 Technical Manual for Credit AC-1:

<https://stars.aashe.org/pages/about/technical-manual.html>

**Includes Sustainability**

A course that is primarily focused on a topic other than sustainability, but incorporates sustainability activities or issues throughout the course. For a complete definition, visit the STARS 2.1 Technical Manual for Credit AC-1:

<https://stars.aashe.org/pages/about/technical-manual.html>

### Undergraduate Course Inventory Results

	Total Courses Offered	Sustainability Courses	Courses that Include Sustainability
Summer 2016	888	63	90
Fall 2016	3,986	355	391
Spring 2017	3,897	345	348
<b>TOTALS</b>	<b>8,771</b>	<b>763</b>	<b>829</b>
<b>PERCENTAGE TOTALS</b>	<b>100%</b>	<b>8.70%</b>	<b>9.45%</b>

### Graduate Course Inventory Results

	Total Courses Offered	Sustainability Courses	Courses that Include Sustainability
Summer 2016	107	4	5
Fall 2016	897	58	67
Spring 2017	914	63	62
<b>TOTALS</b>	<b>1918</b>	<b>125</b>	<b>134</b>
<b>PERCENTAGE TOTALS</b>	<b>100%</b>	<b>6.52%</b>	<b>6.99%</b>

## Summer 2016 Sustainability Undergraduate Courses

	Count
Total Courses	888
Sustainability Courses	63
Courses Including Sustainability	90

SUBJECT	COURSE	# of Sections	Name	Course Description
AFST	317	1	Racial and Ethnic Relations	This course provides an overview of theory, perspectives, and debates around racial and ethnic relations in the field of sociology. It also provides basic historical, legal, political, and socio-economic information about the major racial and ethnic groups in the U.S. Special attention will be paid to contemporary issues in population, class, and gender as they intersect with racial and ethnic inequality. Topics include the historical and contemporary status of racial and ethnic groups such as Asian Americans, Black Americans, Latina/o Americans, White Americans, and other groups in U.S. society. By addressing these topics, students will gain a critical grasp of current debates in racial and ethnic studies, as well as a broad understanding of current socioeconomic and political issues facing racial and ethnic groups in the United States.
AGSM	337	1	Technology for Environmental and Natural Resource Engineering	For the nonengineering student in the environmental and management sciences; concentrates on the application of technology for solving local environmental problems while considering global issues; reduction of water, air and hazardous waste pollutants; legislative issues and modeling.
ALED	422	1	Cultural Pluralism in Agriculture	Selected topics on the diversity of human resources in agriculture; emphasis on working in a multicultural society and developing a sensitivity toward different cultures; explores the interrelationships between the contributions of diverse individuals and the state, nation and global success of agriculture.
ANTH	205	3	Peoples and Cultures of the World	Survey of human cultures around the world using case studies of customs and cultural organization; case studies exemplifying contrasting types of cultures and societies.
ARCH	406	1	Architecture Design V	A comprehensive design studio focused on the integration of design theory with functionally sustainable environmental and structural systems; consideration of a project from site analysis and programming through design detailing.
BESC	201	1	Introduction to Bioenvironmental Sciences	An introduction to the biological components of environmental sciences, with emphasis on the impact of the world's population on global resources; lectures by research scientists reflecting their disciplinary perspective in relevant areas.
BIOL	400	1	Tropical Ecology Costa Rica	The Costa Rica Tropical Ecology program is an advanced, field-intensive course conducted at several biological field stations located throughout Costa Rica. Students will be exposed to a wide variety of tropical ecological principles using largely observational and some sampling techniques. Although a physically demanding course, students will experience an amazing diversity of wildlife and habitats from hot, humid low land rainforests to the high elevations of the Talamanca páramo, while developing a variety of natural history skills needed to understand the complex interactions of plants and animals in tropical environments. Students are required to keep a detailed journal of ecological principles observed while in Costa Rica that will be the basis for their final written report. Students will also have opportunities to experience the unique and friendly culture of one of Central America's most successful countries. Upon returning to the United States, the remainder of the summer will be utilized to complete written assignments using feedback from both the course instructor and teaching assistant.
COMM	315	2	Interpersonal Communication	Communication variables in intercultural contexts including culture and meaning, nonverbal styles across cultures, patterns of symbolic transfer, culture shock and communication, values in intercultural dialogue.
COMM	335	2	Intercultural Communication	Communication variables in intercultural contexts including culture and meaning, nonverbal styles across cultures, patterns of symbolic transfer, culture shock and communication, values in intercultural dialogue.

COMM	471	1	Media, Health, and Medicine	Analysis and evaluation of representations of health in media; examination of gender, class and race as they intersect with health issues.
ECON	330	1	Economic Development	A study of the less developed world; economic problems and solutions.
EHRD	408	2	Globalization and Diversity in the Workplace	Assist learners in the identification and understanding of globalization and diversity issues in learning, work and community; exploration of current issues, theories, trends and policy issues.
EHRD	485	1	Directed Studies	A significant part of this process includes increasing students' capacity to explore how their own personal values, beliefs, and behaviors may affect their ability to interact with people from diverse backgrounds. The outcomes will require a critical and sometimes uncomfortable assessment of "self."
ENDS	101	1	Design Process	Fundamental design processes, issues and theories relevant to design resolution and the creation of new ideas; creative thought processes from the formation of ideas through incubation to final product and future impact on the physical environment and society.
ENDS	106	2	Design Foundations 2	Approaches to problem identification and problem solving emphasizing an awareness of human, physical and cultural factors influencing design; reinforcement of visual and verbal communication as applied to the design process.
ENGL	374	1	Women Writers	History of literature by women in English; emphasis on continuity of ideas and on literary contributions; study of a variety of genres with particular attention to the significance of gender in the racial, social, sexual and cultural contexts of women writing in English.
ENGR	482	4	Ethics and Engineering	Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability and conflicts of interest; emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.
ENTO	320	2	Honey Bee Biology	Introduction of honey bee biology and beekeeping practices to science and non-science majors; honey bees as the model insect to introduce general principles of biology and entomology.
ENTO	322	1	Insects and Human Society	Emphasis on the role insects have played in the development of human cultures; aspects include health, food production and storage, art, music and architecture; overview of historic, present day, and future roles insects will have on environmental movements (green societies), and in underdeveloped, developing and developed societies.
ENTO	489	1	Agriculture, Society, and the Environment	Surveys the origins and evolution of agriculture as context for a critical review of contemporary agriculture, including environmental and human health issues surrounding agriculture in developing countries, and relying on case studies from Latin America and the fields of agriculture, agricultural development, and pest management.
GEOG	201	1	Introduction to Human Geography	A survey of the major systems of man-land relations of the world and their dissimilar developments; the processes of innovation, diffusion, and adaptation stressed with regard to changing relationships between people and their environment.
GEOG	202	1	Geography of the Global Village	Survey of world regions; globalization; environmental problems at multiple scales; human-environment interactions; cultural coherence and diversity; population and settlement; geopolitics; social and economic development; place identification.
GEOG	203	1	Planet Earth	Planet Earth. Earth's physical environment including climate, water, landforms, and ecosystems; processes that control these systems and their global distributions; human effects on these processes.
HIST	305	1	Mexican American History 1848-Present	Social, economic and political evolution of Mexican Americans from 1848 to present; adaptation to a harsh and isolated frontier; land tenure systems; conflict in the new Southwest; change and continuity in society; immigration and settlement of Mexicans; emergence of various political movements; current issues.
HLTH	236	1	Race, Ethnicity and Health	Explore in-depth the racial, ethnic, and cultural dimensions that underlie health and health disparities; emphasis on culture, social economic status and governmental policies as they influence the adaptation of health practices.
HLTH	410	2	Exercise and Health Programs in the Workplace	Careful examination of strategies to design, implement and evaluate exercise and health programs in worksites; including health risk assessment, marketing protocol, needs assessment, corporate culture issues, policy development and cost-benefit analysis.
HLTH	429	2	Environmental Health	Health aspects of environments; health problems related to water, air and noise pollution; pesticides; population and radiation; examination of various micro-environments which either promote or hinder human health and well-being and their implications for community planning and utilization of human resources.

HLTH	489	1	International Health	International Health is a three credit hour seminar designed to provide an overview of global health issues from a synthesis of historical, cultural, environmental, economic, and political perspectives. Students will be challenged to examine their pre-existing beliefs and attitudes towards global health and to consider world views other than their own about health issues and resolutions.
INST	222	1	Foundations of Education in a Multicultural Society	Using a constructivist approach, students will become aware of the issues that are pertinent to being diversity conscious in culturally, linguistically, ethnically, and economically diverse (CLEED) world.
NUTR	430	1	Community Nutrition	Health and nutrition programs, food labeling, cultural food practices, consumer education and marketing.
OCNG	251	1	Oceanography	Overview of the ocean environment; interrelation of the subdisciplines of ocean sciences; importance of the oceans to human beings; human impact on the oceans.
PHLT	330	1	The Environment and Public Health	This public health core knowledge course addresses factors that pose risks and hazards to population health in the environment and in specific contexts such as homes, workplaces, consumer products, and in natural and man-made disasters. Topics include the methods for defining environmental contamination; identifying contaminants, pathogens and toxins; assessing risks and causality; determining health impact; ameliorating hazards; and protecting the population through waste management, regulatory programs, environmental inspections, food and product safety, and environmental policy. Includes interaction with professionals in public health practice.
POLS	320	1	Race and Politics in the United States	The politics of race in the United States: contrast of the political experiences of racial groups with the ideals and realities of democratic political systems.
PSYC	208	1	Stereotyping, Prejudice, and Minority Experience	This course will examine the psychological theories and research on the topics of stereotyping, prejudice, and discrimination in sociocultural context. You will learn about both classic and modern theories of prejudice from a social psychological perspective. In addition, we will discuss research currently being done by psychologists to better understand when and why we use stereotypes and discriminate against groups and individuals. Assigned readings will include book chapters, recent empirical research reports, as well as social commentary.
RDNG	371	1	Multicultural and Interdisciplinary Literature for Middle Grades	Focuses on multicultural and interdisciplinary literature appropriate for middle grades students; implements and evaluates effective multicultural, interdisciplinary instruction through selection, use and development of literature in middle grades classroom.
RENR	375	1	Conservation of Natural Resources	Principles and philosophies associated with the development, management and use of natural resources; ecological and social implications inherent in management alternatives involving the natural environment and use of renewable natural resources.
RENR	405	3	GIS for Environmental Problem Solving	Interdisciplinary approach to train students to integrate GIS and relevant technologies for environmental problem solving; helps students relate learning to real world situations; students conceptualize, develop and manage projects using real data; one term project required.
RPTS	340	1	Recreation, Parks, Tourism and Diverse Populations	Review of major judicial decisions and civil rights laws on provision and distribution of leisure services in society; influence of age, disability, ethnicity, national origin, race, religion and gender on individual's preferences for particular experiences; implications of individual differences for the provision of services.
RPTS	426	1	Tourism Impacts	Consequences and impacts of various kinds of tourism development for host communities and regions; read and evaluate case studies from Texas, other areas in the United States and internationally; economic, environmental, social, cultural and political impacts associated with tourism proposals, project development, tourist activity, industry expansion and industry decline.
SCSC	330	1	Social and Ethical Aspects of International Cropping Systems	Philosophical basis of ethical decisions; includes slavery, war, population growth, migration, farm workers, chemical inputs, genetically modified organisms, soil and water conservation and protection of wild species.
SOCI	314	1	Social Problems	Survey and exploration of causes and consequences of major social problems in American society such as poverty, unemployment, energy, alcohol, other drugs and sexual abuse.
SOCI	403	1	Sociology of Latinos	Exploration of social characteristics and acculturation problems of Mexican Americans in the United States; styles of life and cultural variability, social mobility, the struggle for advancement and identity through social movements.

SOCI	489	1	US-Mexico Border Sociology	This course is designed to introduce you to sociological understandings of the US-Mexico border. This border is much more than a geographical divide established by international treaties. It has a power and a force that structures and patterns human behavior, identity, and belonging for people who live near it, cross it, locate it in their memory, and see its effects on their family and friends. It has political, social, emotional, ethical and economic components.
SPMT	319	1	Sociology of Sport	Social institution of sport and its consequences for American society; social organization from play to professional sport; violence, discrimination, women in sport; socialization implications from participation in sports.
URPN	201	2	The Evolving City	This course introduces students to the history of contemporary urban and regional planning, and how the evolving forms of cities and regions pose opportunities and challenges for planners. This course helps students to understand key social, economic, political, and technological forces that shape city form and function and its ramification for urban and regional planning. It covers the evolution of cities, history of planning, and contemporary issues in planning.
URPN	202	1	Building Better Cities	This course aims to introduce students to contemporary issues of urbanization, past influences and current practice of public planning in the United States. One of the many definitions of city planning is “a systematic, creative way to influence the future of neighborhoods, cities, rural and metropolitan areas, an entire nation and even the world” to improve the welfare and quality of life for residents in the community. Planning in this context involves making decisions and taking action related to issues that affect the entire community such as land use, transportation, housing, social services, community and economic development, environmental quality, and so on. Students will learn about the tools, techniques and challenges of being a planner, issues that affect planning, concepts related to planning processes, as well as the various fields of planning.
URPN	325	1	Introduction to GIS in Urban and Regional Planning	Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environmental studies, transportation and hazard management; based on learning through class projects.
URPN	361	1	Urban Issues	The world is becoming increasingly urban. In the United States 3 out of 4 people live in urban areas, and in the rest of the world numbers are increasing. How did cities emerge? What makes cities grow? How cities work? Are they sustainable? These are introductory themes that we expect to answer in this class: the evolution and development of cities; the socio-economic, cultural and physical development of urban areas; and their contemporary problems such as, unemployment and poverty, crime, public health, racial tension, environment (pollution, disasters, desertification, and degradation) and other quality of life issues.
AGEC	105	2	Introduction to Agricultural Economics	Characteristics of our economic system and basic economic concepts; survey of the farm and ranch firm and its organization and management; structure and operation of the marketing system; functional and institutional aspects of agricultural finance; government farm programs.
AGEC	402	1	Survey of International Agricultural Economics: Study Abroad	Examine, from an international setting, the shape of international agriculture; how culture, history, politics and geography in foreign countries affect the production and management of agricultural products; agricultural policy formation; countries' natural resources and competitive strategies.
AGEC	422	2	Land Economics	Economic, institutional, and physical factors involved in the use and control of natural resources; includes elements of introductory land economics as a discipline, economic foundations of land economics, institutional influences on land use, and the effects of public policy on land use.
ALED	424	1	Applied Ethics in Leadership	As a person, it is imperative to recognize an ethical dilemma. As a leader, it is imperative to lead others through those dilemmas. One way to accomplish this is to understand different ethical perspectives and moral theories. This course will not only teach you ethic and moral theories, but will give you ample application opportunities.
ANTH	201	2	Introduction to Anthropology	An introduction to the discipline of anthropology through the examination of its four sub-fields: archaeology, physical anthropology, sociocultural anthropology and linguistics.

ANTH	324	1	Music in World Cultures	This course offers a broad overview to various musical expressions throughout the world, including Africa, Asia, North and South America, and Europe. It will expand your musical vocabulary and increase your awareness of the importance of music in different cultural contexts. We will examine multiple ways of organizing sound from a sociocultural and ethnographic perspective, focusing on group identity and notions of race, gender, ethnicity, nationalism, and power. Additionally, the course is an opportunity to connect with your local community by attending and analyzing musical performances.
ARAB	491	1	Research: Capstone Project	This course is designed as a semester-long research project on linguistic, cultural, historical, religious, and/or political issues pertaining to the Arab world. The research paper is a capstone project for students pursuing a minor in Arabic Studies
ATMO	201	1	Weather and Climate	Structure, energy, and motions of the atmosphere; climate; fronts and cyclones; atmospheric stability; clouds and precipitation; severe storms.
BAEN	465	1	Design of Biological Waste Treatment Systems	Management and treatment of high organic content wastes streams, with emphasis on agricultural, municipal, and agro-industry wastewater; engineering design of biological waste treatment processes; resource recovery from waste streams; recycle and reuse of finished effluents.
BIOL	214	1	Genes, Ecology and Evolution	A genetically-based introduction to the study of ecology and evolution; emphasis on the interactions of organisms with each other and with their environment.
CARC	331	1	Field Studies in Design Philosophy	Design philosophy in international and domestic environments away from the Texas A&M University campus; emphasis on the historical, philosophical, cultural, social and economic factors that influence design solutions. May be taken up to two times in the same semester.
COMM	203	21	Public Speaking	Public Speaking. Training in speeches of social and technical interest designed to teach students to develop and illustrate ideas and information and to inform, stimulate, and persuade their audiences. Environmental and social justice topics are covered.
COSC	381	1	Professional Ethics in the Construction Industry	Professional Ethics in the Construction Industry. (1-0). Credit 1. Principles of ethical behavior in preparation for a professional internship with a construction or construction-related company; various construction company case studies emphasizing: personal accountability, integrity, moral courage, individual, association and company codes of conduct; accepted business practices, decision making, company cultures, peer pressure, public opinion and work ethic. 1.0 Credit hours 1.0 Lecture hours Prerequisites: Admission to upper level in Construction Science
CVEN	339	1	Water Resources Engineering	Quantitative hydrology, precipitation, hydrograph analysis, reservoir and stream routing; groundwater, Darcy equation, well equation, well design; probability concepts in design; water law; dams; reservoirs; spillways; open channel and pipe network hydraulics; pumps; urban stormwater drainage; flood damage mitigation.
ECON	202	1	Principles of Economics	Elementary principles of economics; the economic problem and the price system; theory of demand, theory of production and the firm, theory of supply; the interaction of demand and supply.
EHRD	203	1	Foundations of Human Resource Development	EHRD 203 is designed to provide students with an overview of the discipline and practices in the field of Human Resource Development. The class focuses on how individuals and groups learn and interact with organizations including motivation, group dynamics, systems theory, organizational culture, learning and change. This class contributes to the fulfillment of the academic requirements for the undergraduate degrees for both the Technology Management and the Human Resource Development majors of the Bachelor of Science Degree in the Department of Educational Administration and Human Resource Development, College of Education. Diversity in the workplace is one of the course units.
EHRD	210	1	Legal and Ethical Environments of HRD	In this course, you will be exposed to federal and state laws governing the relationship between employers and employees in both the private and public sectors, and the agencies charged with enforcing the laws. You will also become familiar with how the laws have been interpreted and applied by federal and state courts. As a result of studying the legal framework governing the employment relationship, you will be able to understand the impact of labor and employment law on ethical managerial decision-making. Discrimination law is a major part of this course.
GEOG	450	2	Field Geography	Field geography is a unique course that compliments the geography curriculum by engaging students in real world situations. Students have the opportunity to apply their knowledge of previously learned concepts and ideas, and students are introduced to the equipment, terminology, and techniques of working in the field.

HLTH	214	2	Health and Physical Activity for Children	Coordinated school health and physical activity programs appropriate for elementary aged children; focus on the content of the curriculum and the philosophical underpinnings of programming related to health and physical activity.
HLTH	231	2	Healthy Lifestyles	Healthy Lifestyles. Health issues relevant to students; included are mental health, use and abuse of drugs, human sexuality, communicable diseases, environmental and consumer health.
HLTH	334	3	Women's Health	A broad range of health issues that are either unique to women or of special importance to women; information for the health consumer; preparation as an advocate of healthy lifestyles; awareness of the role health plays in the life of all women.
HLTH	342	3	Human Sexuality	Many aspects of human sexuality; physiology and function of human reproductive system, factors involved in learning sex roles, biological and emotional motivations associated with the sexual aspects of life and their relationship to marriage and family planning.
HLTH	403	2	Consumer Health	This course addresses a comprehensive overview of issues associated with being a wise consumer of health products and services. More specifically, this course provides consumers with the knowledge and skills necessary to make informed health decisions in contemporary society
HORT	301	1	Garden Science	Identification, propagation, soil management, fertilization, growth control and protection of common garden plants: indoor ornamentals, landscape ornamentals, fruits and vegetables; special topics include home landscaping, container gardens, bonsai, herbs and medicinal plants and hobby greenhouse management. The effects of organic and non-organic practices on the garden ecosystem.
LAND	200	1	Introduction to Landscape Architecture Practice	The course introduces the students to the diversity of landscape architectural education and practices both as a discipline and as a profession. It defines traditional practice forms and examines evolving and expanding interdisciplinary opportunities for future landscape architects. LAND 200 is intended to LAND 200 Introduction to Landscape Architecture Practice Jun-Hyun Kim 2 be an introduction to the field and is focused on a breadth of general understanding rather than the depth of specific knowledge
LAND	240	1	History of Landscape Architecture	Introduction to history of land use, urban design and planning, and site design from prehistory to the present in Europe, Asia, Africa and Australia; contemporary issues in landscape architecture such as sustainability, ecological design, and professional roles, both historically and at present, with comparisons to American examples.
MEEN	402	1	Intermediate Design	Product detail design and development process including case studies; project management, marketing considerations, manufacturing, detailed design specifications; failure modes, application of codes and standards, selection of design margins; product (component) development guidelines; intellectual property, product liability, sustainability, and ethical responsibility.
MGMT	209	2	Business Government and Society	Impact of the external environment-legal, political, economic and international-on business behavior; market and non-market solutions to contemporary public policies confronting business persons examined including antitrust law, employment and discrimination law, product safety regulation, consumer, protection and ethics.
MGMT	211	2	Legal and Social Environment of Business	Role of government in business and society; analysis of social policy and legal institutions; ethical problems in management decisions; administrative law; antitrust law; employment and discrimination law; regulation of business transactions; protection of intellectual property rights; regulation of information in markets; including securities and product safety; international business law.
MGMT	309	1	Survey of Management	Survey for non-business majors of the basic functions and responsibilities of managers; includes the environmental context of management, planning and decision making, organization structure and design, leading and managing people, and the controlling process; issues of globalization, ethics, quality and diversity integrated throughout the course. May not be used to satisfy degree requirements for majors in business.
MMET	206	1	Non-Metallic Materials	To be able to define, recognize, and describe common non-metallic materials (polymers, composites, ceramics, and semiconductors) concerning their properties, manufacturing processes, and typical applications. To understand the environmental impact, life cycle assessment, and carbon footprint of a product.
NUTR	202	1	Fundamentals of Human Nutrition	This course provides an overview of the fundamentals of human nutrition with the goal of enabling students to think critically while exploring the role of food and nutrition in health, disease and the environment.
PHIL	111	3	Contemporary Moral Issues	Contemporary Moral Issues. Representative ethical positions and their application to contemporary social problems.

PHLT	303	1	Social Context of Population Health	This course explores social determinants of population health and the socio-cultural roots of health improvement. It discusses the socio-economic, behavioral and other factors that impact population health and contribute to health improvement and health disparities. Topics include socio-cultural definitions and perceptions of health, wellness, and healing; cultural, social, and individual values and their impact on choices and behaviors; macro and community dynamics; socio-cultural impact on determinants of health; socio-economic determinants of health; protective effects of social networks, social norms, and cultural belief systems; disease stigma; cross-cultural and global comparison case studies; social context of public health policy; cultural competency; social biases and institutional discrimination; equity and social justice; the balance between individual and social benefits, rights, and restrictions; key concepts of sociology and anthropology for public health practice; basics of social behavioral change theories; impact of social networks, leadership structures, opinion leaders, and change agents.
POLS	306	4	Contemporary Political Problems and Issues	Major contemporary political problems and issues with primary emphasis on the U.S. Each term one to three problems or issues will be examined in some depth. Students may register in up to but no more than two different sections of this course. May be repeated for credit.
POLS	353	1	Constitutional Rights and Liberties	Legal issues, controversies and significant developments in constitutional rights and liberties, and the impact of these developments upon American politics, culture and social institutions.
RPTS	201	1	Foundations of Recreation, Parks, and Tourism	Analysis of the elements comprising a community, community assessment techniques and community development processes engaged by stakeholders and residents to improve living conditions; definitions and principles associated with community development.
RPTS	301	1	Leisure and Outdoor Recreation in American Culture	Introduction to the fundamental concepts of leisure and outdoor recreation and how they influence us as individuals, groups and society; critical factors such as self, family, lifespan, ecology, health, work patterns, communications, diversity, popular culture, and consumption are studied in relationship to past, present and future leisure patterns.
RPTS	302	1	Application of Tourism Principles	The course will provide an introduction to tourism from a business perspective, specifically by considering the management, marketing, and finance issues most important to industry members. The integrative model of tourism as a dynamic industry will be covered, including the importance of providing quality services, tourism service providers, and the impacts of tourism on host communities and the world. Finally, developing critical thinking processes and problem-solving skills based on knowledge of this course will be encouraged. This course has a unit of sustainability.
RPTS	370	1	Youth Development Organizations and Practices	Changing views of adolescence and youth culture in the United States; developmental assets and principles of developing positive youth development supports, opportunities and services; mentoring and staff development for youth serving agencies; goals, program emphases, administrative methods and membership of major youth serving organizations.
SOCI	491	1	National Science Foundation Research Experiences for Undergraduates Seminar in Social Science Research Methods for Investigating Social Disparity and Social Vulnerability	Our REU program seeks to strengthen student grounding in the basic research methodologies used in research in sociology and urban planning. To accomplish this goal, the program involves students in seminar instruction, out-of-class assignments, laboratory exercises, research-oriented field trips, and a research project supervised by a faculty research mentor. The seminar meetings review material students have had in previous coursework with the goal of promoting deeper understanding and mastery of social science methods that will be used when working with their faculty mentors on a research project. Also, since the REU program is geared to encouraging students to pursue graduate training in sociology and urban planning, seminar discussions stress the importance of research methods in advanced training in the discipline and preview how research methods reviewed in the seminar serve as a foundation for learning advanced methods taught in graduate programs.
SPMT	304	3	Psychological Perspectives on Education	This course examines the relationship of psychology to sport and exercise. Topics include history, application of learning principles, social psychology, personality variables, psychological assessment, youth sport, and diversity issues in sport and exercise.
SPMT	336	3	Diversity in Sports Organizations	Examine an encompassing perspective of diversity within North American and international sport organizations.
THAR	201	1	Introduction to World Theatre	Non-Western theatre, its origins and continuing influence on society and Western theater; emphasis on the theaters of India, China, Japan, Africa, the Caribbean and Latin America.



URPN	220	1	Digital Communication 1	Applications of computer graphics, rendering, and visualization software in urban design, landscape architecture, and environmental analysis; introduction to basic concepts and principles of graphic composition; rendering, visualization, and linkages to landscape-referenced data.
WFSC	403	1	Animal Ecology	Concepts of animal ecology which emerge at various levels of organization; the ecosystem, the community, the population and the individual; laboratories emphasis on the quantitative analysis of field data and the simulation of population dynamics.
WGST	315	1	Marriage Institution	What is marriage? What is a family? Although one might have a constructed a singular definition to these concepts, the complexity of marriage and the family cannot be explained without intersectional, generational, and cultural context. This course seeks to examine the social and cultural context of marriage within a wide range of analysis. This class will students to analyze marriage in terms of emerging adulthood, divorce, violence, parenthood, classical and contemporary sociology, etc. As a class, students will be responsible for applying the reading to "real world" examples while critically thinking about the sociological implications of the material. The objective of this course is for students to be able to understand the ideology and reality surrounding marriage and its conflicting messages. Has course lectures over race and gender.
WGST	334	1	Women's Health	A broad range of health issues that are either unique to women or of special importance to women; information for the health consumer; preparation as an advocate of healthy lifestyles; awareness of the role health plays in the life of all women.

## Summer 2016 Sustainability Graduate Courses

	Count
Total Courses	107
Sustainability Courses	4
Courses Including Sustainability	5

SUBJECT	COURSE	# of Sections	Name	Course Description
EDCI	602	1	Cultural Foundations of Education	Contributions of behavioral sciences applied as analytic tools in solving problems of curriculum and instruction. Sociocultural forces in American history that influence our educational system <ul style="list-style-type: none"> <li>• Historical, philosophical, political, and social perspectives</li> <li>• The influence of race, class, culture, ethnicity, gender, and power to our education system</li> <li>• Issues, problems, and solutions in an ever-changing pluralistic society</li> <li>• Culturally relevant and responsive curriculum and instruction as it relates to providing all children with an equitable and quality education</li> </ul>
EDAD	689	1	Social Justice and Ethics in Education	The goals of the course are to provide educational leaders and researchers with a framework for understanding the dynamics of oppression, to offer tools for ethical decision making, and increase awareness and responsibility towards social justice issues in education
PLAN	625	1	Geographical Information Systems in Landscape and Urban Planning	Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environment studies, transportation and hazard management; based on learning through class projects.
SCSC	613	1	Ethical Aspects of International Cropping Systems	After examining very different understandings of ethics and morality, we will explore key issues affecting crop production worldwide: migrant farm labor, population, the Green Revolution, soil erosion, agricultural chemicals, genetic engineering, water, and sustainability. Each topic will be studied historically and from different points of view.
ARCH	603	1	Design Fundamentals 3	Theory and practice of architecture; methods and techniques used in the analysis and synthesis of concepts unique to spatial enclosure; developing responses to building systems; objects in a current cultural, physical or social context; complex building programs, site development and design solutions integrating formally expressive visual ideas and functional planning.
ESSM	651	2	Geographic Information System for Resource Management	Geographic Information System (GIS) approach to the integration of spatial and attribute data to study the capture, analysis, manipulation and portrayal of natural resource data; examination of data types/formats, as well as the integration of GIS with remote sensing and Global Positioning System; laboratory includes extensive use of GIS applications to conduct analyses of topics in natural resources.
SPMT	623	2	Intercollegiate Athletics	Throughout this course we will examine the National Collegiate Athletic Association (NCAA) and intercollegiate athletics. Through the use of various course materials, you will understand historical, legal, financial, educational, and diversity related issues which pertain to intercollegiate athletics. There will be contributions ranging from theoretical perspectives to the study of college sport, to include the sociocultural (race, gender, and class) interactions and their relationships to the NCAA, intercollegiate sport, and higher education.

### Fall 2016 Sustainability Undergraduate Courses

	Count
Total Courses	3,986
Sustainability Courses	355
Courses Including Sustainability	391

SUBJECT	COURSE	# of Sections	Name	Course Description
AFST	300	1	Blacks in the United States, 1607-1877	Blacks in the United States from the colonial period to 1877; the slave trade, slavery, free blacks and the impact of the Civil War and Reconstruction on blacks. In depth examination of the history of racism in the United States.
AFST	481	1	Seminar	Comparative studies of slave societies in the modern world; history and analysis of African American feminism; comparative analyses of the social, political, and economic condition of African Americans and other African peoples of the diaspora.
AGEC	350	1	Environmental and Natural Resource Economics	Inspection of issues such as environmental degradation, population growth, recycling, water use and depletion, natural habitat protection, water and air pollution, acid deposition, fishery management, and global warming using economically derived principles and tools.
AGEC	422	2	Land Economics	Economic, institutional, and physical factors involved in the use and control of natural resources; includes elements of introductory land economics as a discipline, economic foundations of land economics, institutional influences on land use, and the effects of public policy on land use.
AGEC	489	6	Economics of Sustained No-till Adoption in Agro-Ecosystems of Ghana	This field study will expose students to how limited resource farmers in Ghana are making economic decisions and addressing conflicts due to environmental and natural resource problems including climate change, drought and poor soil conditions.
AGSM	337	1	Technology for Environmental and Natural Resource Engineering	For the nonengineering student in the environmental and management sciences; concentrates on the application of technology for solving local environmental problems while considering global issues; reduction of water, air and hazardous waste pollutants; legislative issues and modeling.
ALEC	350	1	Global Agricultural Issues	Review of global agricultural issues (products, environment, people, and culture) affecting international agricultural development; concepts and principles underlying the processes of teaching, research, and service opportunities in international agricultural development and education situations. 1. Develop an awareness of global agricultural issues affecting agricultural development initiatives. 2. Increase knowledge of global agricultural products. 3. Discover cultural similarities and differences worldwide. 4. Investigate development issues for country-specific situations. 5. Identify major development agencies, their missions, and foci of efforts. 6. Examine development efforts in each of United Nations' geographic regions.
ALEC	450	1	Global Social Justice Issues in Agriculture	An in-depth evaluation of global social justice issues and leadership skills necessary to effectively solve and manage issues in agricultural development; topics include awareness, knowledge and understanding of teaching, research and service opportunities for those seeking careers in global social justice and agricultural leadership.
ALED	222	1	Practicing Diverse Leadership and Cultural Exploration	Social theories and historical perspectives of leadership, particularly in terms of class, gender, race, ethnicity, and nationality; multidisciplinary approach to the study of leadership with a special emphasis on culture completed through readings, class lectures, films, group projects and discussions.
ALED	380	1	Agriculture Leadership Education Development	Students will explore the concept of leadership and organizational development through the lens of culture and gender. This course will explore major concepts surrounding the implication of gender and culture on decision making as it pertains to leadership styles, interpersonal relationships, communication, and social norms. This course will examine how literature and social media influence current society's interruption of the intricate relationship between gender and culture. The course will address leadership theories and characteristics of successful leaders such as civic engagement, global accountability, and understanding of servant leadership in the context of student organization involvement.
ALED	422	1	Cultural Pluralism in Agriculture	Selected topics on the diversity of human resources in agriculture; emphasis on working in a multicultural society and developing a sensitivity toward different cultures; explores the interrelationships between the contributions of diverse individuals and the state, nation and global success of agriculture.
ANTH	205	14	People and Cultures of the World	The course provides students with an introduction to ethnographic inquiry and a survey of the wide diversity of human cultures. It examines dimensions by which human cultures vary, including economy and subsistence, family formation, religion, language, political structure, gender relationships, and many more. Students explore a number of different populations around the world, learning their unique customs and ways of life. These explorations and related discussions demonstrate how an understanding of culture, history, environment, colonialism, and Global Problems provide reliable anthropological perspectives about why the world is the way it is today, in particular, why there continues to be so much socioeconomic inequality.
ANTH	210	2	Social and Cultural Anthropology	This course offers an introduction to anthropological theories and ethnographic interpretations of culture and society. It aims to provide broad exposure to the uniquely human science of anthropology while emphasizing the diversity of culture throughout humankind. Topics such as culture, political systems, religion, sexuality, gender, and economics will be explored and analyzed for their diversity and similarities, using the tenets of holism and comparison. At the end of the course, students should be able to describe the discipline of anthropology and the ethnographic method; evaluate kinship, ritual, religion, politics, race, ethnicity, and history as cultural concepts; and articulate the diversity of culture that characterizes humankind with reference to ethnographic cases studied in class.
ANTH	300	1	Cultural Change and Development	Culture and Applied Approaches to Development. 1. Cultural and Social Barriers to Development. 2. Poverty and its Cultural Consequences. 3. Integrated Nature of Extreme Poverty and the Poverty Ratchet. 4. Rural Development Approaches over Time. 5. Applied/Development Anthropology.

ANTH	489	2	People and Cultures of Latin America	This course will introduce students to the geocultural region of Latin America, its history, cultures and peoples. While Latin America is often viewed as a monolithic block, it is in fact an extremely diverse tapestry of peoples, held together by the threads of shared history, culture and geography. Furthermore, Latin America is not an island, but a cultural region that is inseparably tied the rest of the world, its identity having been shaped by a history of European colonization, and its presence and influence growing throughout the world. Finally, embedded within Latin America there exist hundreds of indigenous nations with varying levels of integration with state-level cultures and economies.
ARCH	212	1	Social and Behavioral Factors in Design	Social and behavioral factors in the built and natural environment; environmental perception and spatial cognition; social-environmental processes such as privacy and crowding; setting-oriented discussion on residences, education, and the workplace; the psychology of nature and natural resource management; social design and social science contribution to architectural design.
ARCH	421	1	Energy and Sustainable Architecture	Understanding the various design decisions impacting sustainability and energy efficiency; includes participation in an "academic" LEED-NC rating project; interdisciplinary team approach with a design studio architect to perform the LEED-NC rating on the architect's building; application of reference material, standards, and USGBC material.
ARCH	435	5	Integrated Systems	Understanding how to integrate sustainable environmental systems into a building through good design; lectures support studio; systems faculty participate in studio critiques throughout the project.
ARCH	458	1	Cultural and Ethical Considerations for Global Practice	Issues and relationships within the cultural, business, legal and political environments of global practice; differences in the construction contract, bidding and various forms of construction.
ASIA	463	1	Gender in Asia	Gender dynamics in Asia; changes in gender roles; women's movements; women and the economy; women and politics; men's and women's private lives.
ATMO	363	1	Introduction to Atmospheric Chemistry and Air Pollution	Descriptive introduction of the composition and chemistry of natural and pollutant compounds in the atmosphere; transport, cycling and reactivity of atmospheric material; atmospheric measurements, data processing, air quality and human health issues; air pollution trends and climate change.
BAEN	414	1	Renewable Energy Conversions	Energy/power systems through engineering and technical aspects of quantifying and designing the suitability of several types of renewable energy resources; new insights of vast resources that future engineers can harness to augment diminishing supplies of nonrenewable energy.
BAEN	477	1	Air Pollution Engineering	Design of air pollution abatement equipment and systems to include cyclones, bag filters, and scrubbers; air pollution regulations; permitting; dispersion modeling; National Ambient Air Quality Standards.
BESC	367	2	U.S. Environmental Regulations	Investigation of the legal infrastructure of the U.S. associated with regulating environmental impacts; examination of major U.S. environmental statutes associated with air and water quality, toxic substances, waste and hazardous substance release, energy and natural resources; review the relationship between U.S. policy and international environmental regulations.
BESC	403	1	Sampling and Environmental Monitoring	Introduction to environmental sampling and methodology; strategies and analyses of sampling data; overview of current applications of sampling and monitoring in the environmental sciences; emphasis on practical aspects of sampling from air, soil and water; detection and quantification of microbial and chemical unknowns in environmental media.
BESC	481	2	Seminar	Capstone course for topics in bioenvironmental sciences; critical analysis of environmental issues through written themes and presentations. The focus of this course will be sustainable development and environmental issues in China and Capstone course for topics in bioenvironmental sciences; critical analysis of environmental issues through written themes and presentations.
BUSN	302	11	Ethics and Freedom	In Business Ethics and the Fight for Freedom, you will learn how to put your business knowledge to use and help end slavery in our modern world. This class will provide you the tools to be a more informed buyer and future business leader. People around the world are awakening to the issue of slavery and businesses are taking notice. As business students, we are the connecting link. This is the time to learn how to be more than a conscious consumer. It is time to become an active abolitionist by acquiring the skills necessary to help your corporation or personal business make a difference in the fight for freedom.
CARC	311	5	Field Studies in Design Innovation and Communication	Design innovation in international and domestic environments away from the Texas A&M University campus; emphasis on the cultural, social, economic, geographical, climatic and technological factors influencing design solutions for human needs.
CHEN	425	1	Process Integration, Simulation & Economics	In particular, the course introduces the students to the principles of process economics including evaluation of fixed and operating costs, depreciation, and profitability analysis. Textbook: El-Halwagi, M. M., "Sustainable Design through Process Integration: Fundamentals and Applications to Industrial Pollution Prevention, Resource Conservation, and Profitability Enhancement", Butterworth-Heinemann/Elsevier, Amsterdam (2012)
COMM	315	1	Interpersonal Communication	Speech interaction in person-to-person settings; concepts of perception, attraction, self-disclosure, listening, and conflict management through communication; speech interaction patterns and stages in the development of interpersonal communication. This course encourages different perspectives related to such factors as gender, race, nationality, ethnicity, sexual orientation, religion, and other relevant cultural identities. The class seeks to foster understanding and inclusiveness related to such diverse perspectives and ways of communicating.
COMM	335	2	Intercultural Communication	Communication variables in intercultural contexts including culture and meaning, nonverbal styles across cultures, patterns of symbolic transfer, culture shock and communication, values in intercultural dialogue.
COMM	340	2	Communication and Popular Culture	Survey of theories and concepts of popular culture; dynamic relationships between pop culture and television, film, sports, politics and leisure. <ul style="list-style-type: none"> <li>• Investigate key terms such as: culture, mass society, popular and globalization</li> <li>• Analyze how popular culture is constructed and the tools needed to study its meaning and impact</li> <li>• Articulate the role mass media plays in creating, discerning and interpreting culture</li> <li>• Identify how popular texts, images and icons can be used as tool to support or challenge cultural values and beliefs</li> <li>• What role do audiences/consumers play in creating popular culture?</li> <li>• In what ways do mass media represent, reconstruct or determine "reality"?</li> <li>• What stories do popular media tell us about race, gender, religion and our identity?</li> <li>• Is it possible to produce countercultural messages and products in a global society?</li> </ul>
COMM	407	1	Women, Minorities, & Mass Media	This course will explore social identity in the context of popular culture and mass media. Drawing on literature from Communication, Media Studies, Women's Studies, Africana Studies, sociology, and psychology, we will learn about theories and case studies that help understand how the media are sites for constant negotiation and construction of identities such as masculinity, femininity, blackness, and "otherness." The term "minorities" will be interpreted broadly so that we can explore power and privilege in a variety of contexts such as gender, race, ethnicity, sexuality, class, age, nationality, physical/mental disability, and religion.
COMM	420	1	Gender and Communication	Survey of the role of gender in communication processes; focus on communication differences between men and women in contexts such as the family, school and work organizations; discussion of media influence in gender stereotypes.

COMM	460	1	Communication and Contemporary Issues: Interracial Couples	Rhetorical and other critical approaches to study how communication practices influence the construction of social issues. This class will explore the history of black-white romantic relationships in the US, the racial identity of each of the partners, and communication within the dyad. In addition, we will also have "Race-in-the-News" days where we explore issues of race in current events.
CVEN	301	2	Environmental Engineering	Water quality; material balances; chemical, physical and biological processes; water quality modeling; water and wastewater treatment; air quality; solid and hazardous waste management.
ECON	318	1	The Economics of Gender and Race	Theories and evidence on gender and race differences in labor market outcomes; labor supply and the role of family formation; the effect of human capital and discrimination on earnings; analysis of government policies; international comparisons.
ECON	330	2	Economic Development	A study of the less developed world; economic problems and solutions.
EHRD	408	2	Globalization and Diversity in the Workplace	Assist learners in the identification and understanding of globalization and diversity issues in learning, work and community; exploration of current issues, theories, trends and policy issues.
EHRD	485	1	Directed Studies	A significant part of this process includes increasing students' capacity to explore how their own personal values, beliefs, and behaviors may affect their ability to interact with people from diverse backgrounds. The outcomes will require a critical and sometimes uncomfortable assessment of "self."
ENGL	202	1	Environmental Literature	Writers have long been interested in exploring the relationships between human beings and nature. However, not until the 1970s did the literary field that we now call "environmental literature" or "ecocriticism" begin to take shape. This class will introduce students to the field of modern environmental literature and theory. We will read fiction, poetry, and nonfiction, and also view a film that examine from different perspectives the complex relationship between humans and their built as well as natural environments. The readings and class discussions will explore such pressing issues as nature/culture, global climate change, sustainability, environmental justice, food production, preservation & conservation, and animal rights.
ENGL	205	1	Introduction to Africana Literature	Works, literary movements and genres of authors of African descent in the Americas, Europe and Africa. What is blackness? What roles do class, culture, gender and religion play in Africana literature and culture? How do the arts help us investigate, analyze, conceptualize, represent and understand the Africana experience?
ENGL	374	1	Women Writers	History of literature by women in English; emphasis on continuity of ideas and on literary contributions; study of a variety of genres with particular attention to the significance of gender in the racial, social, sexual and cultural contexts of women writing in English.
ENGL	474	1	Studies in Women Writers	History of literature by women in English; emphasis on continuity of ideas and on literary contributions; study of a variety of genres with particular attention to the significance of gender in the racial, social, sexual and cultural contexts of women writing in English.
ENGR	270	4	Engineering Projects in Community Service	Project course using team approach to engage students in open-ended community service projects involving non-profit agencies; includes project management, understanding the complete design process, awareness of the customer in engineering design, and the ability to communicate effectively.
ENGR	410	1	Global Engineering Design	A study of intercultural models and their application to engineering design in diverse, multinational and multidisciplinary settings. Students carry out an engineering design project working in international teams of students, faculty and industry experts. In addition to applying engineering skills in the project, topics also include the study and application of intercultural models, global enterprise fundamentals, and remote collaboration technologies. Integrate and apply skills required to solve an engineering design problem (Design and cognitive competence). • Be aware of intercultural differences and similarities, and their relevance to effectiveness in the workplace (Cognitive competence). • Apply intercultural knowledge for self-improvement (Intrapersonal competence). • Apply intercultural knowledge for effective teamwork (Interpersonal competence)
ENGR	482	6	Ethics and Engineering	Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability and conflicts of interest; emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.
ENGR	489	1	Entrepreneurship Related To Nanomaterials for Energy Applications	This technical elective will explore the various aspects of entrepreneurship with a focus on advanced nanomaterials (from discovery to commercialization) for use in the energy sector. 1. Ability to apply knowledge of mathematics, science, and engineering to solve basic problems related to the implementation of nanomaterials in energy production, harvesting, conversion, distribution and storage. 2. Ability to understand opportunities and challenges of basic solar PV energy systems and Li-Ion battery storage with nanoscale adaptations/refinements to meet economic, environmental, and societal constraints. 3. Ability to demonstrate knowledge of advanced coating material systems related to solar photovoltaic energy systems. 4. Ability to realize the potential of nanomaterials not only in the emerging renewable energy sector but also in the existing major segments such as oil & gas and nuclear energy. 5. Ability to distinguish between economic feasibility and engineering feasibility with special emphasis on economics of scale and scalability in nanotechnology innovation.
ENGR	491	5	Aggie E-Challenge Program	This course is designed to provide undergraduate students opportunities to address significant interdisciplinary challenges on elements of some of the most important engineering challenges. They should learn and apply engineering concepts, principles, and approaches in multidisciplinary contexts and develop their professional knowledge and skills. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability. An ability to function on multi-disciplinary teams. An ability to communicate effectively.
ENTC	489	3	Building Energy Management System	The course includes the essential elements of energy management from understanding energy production to consumption, identify the major components energy management of buildings, energy audit to business (strategy), Heating Ventilating Air Conditioning (HVAC), Control systems, economics (ROI), and engineering system integration. 2. Discuss social and political issues involved in energy management 3. Identify the major components and considerations involved in of energy efficiency and effective management of buildings 5. Identify how you want the building to run - needs (propose a design – system integration), and describe the technology and propose a technical solution for a building that will include modifications and techniques for saving energy 6. Identify the process and tools used in and energy audit of a building to determine current state and issues 7. Explain and calculate the Financial aspect (ROI) 8. Develop and deliver a technical proposal on energy saving building modifications to TAMU facilities and private industry

ENTO	210	1	Global Public Health Entomology	Impacts of insects and insect-borne diseases on public health and well-being around the globe; insect biology, bloodfeeding, and transmission of human diseases; role of insect borne diseases on human history, socio-economic development, and public health infrastructure.
ENTO	322	2	Insects and Human Society	Emphasis on the role insects have played in the development of human cultures; aspects include health, food production and storage, art, music and architecture; overview of historic, present day, and future roles insects will have on environmental movements (green societies), and in underdeveloped, developing and developed societies.
ENTO	401	1	Principles of Integrated Pest Management	Integrated pest management (IPM) concepts, principles, development and application; IPM constitutes a series of pest control tactics and strategies toward more sustainable agriculture, natural resources, and urban and rural health and well-being.
ESSM	309	1	Forest Ecology	Life history and general characteristics of trees; structure and function of forest ecosystems; fundamental principles of forest tree physiology and ecology applied to an analysis of tree growth in relation to environmental factors and present day forest management; global changes and forests.
ESSM	318	1	Coupled Social and Ecological Systems	Resilience-based stewardship of social-ecological systems; ecological concepts of resilience, sustainability, ecosystem services, and vulnerability; investigation of linkages among social and ecological system components; contribution to sustainability and provisioning of ecosystem services; evaluation of multiple knowledge sources as the basis for adaptive ecosystem management.
ESSM	319	1	Principles of Forestry	Theory and practice of forestry in controlling forest establishment, composition, structure and growth; principles of natural and artificial regeneration; intermediate cultural operations; silvicultural systems; use and control of fire in forests; principles of sustainable stand management.
ESSM	404	1	Changing Natural Resource Policy	Students will study the process through which environmental policies are changed; study theories of social and political change; teams use those theories along with their original research on environmental policy problems to create and implement plans for changing environmental policies in their own communities
ESSM	406	1	Natural Resources Policy	Natural resources and forest policy development in the United States and review of current issues in forest and related natural resource policy.
ESSM	416	1	Fire Ecology & Natural Resource Management	The goal of this course is to introduce you to the major aspects of wildland fire science including theoretical, empirical and practical components of fire research and management in a variety of ecosystems. Through formal lectures, multi-media presentations, assigned readings and group discussions we will cover a broad spectrum of the classic and current scientific fire literature. We will also attempt to provide you with hands-on prescribed burning experiences as circumstances and weather permit. 1: Describe the coupled socio-ecological systems that are relevant to managing ecosystems prone to fire and burned as part of a management plan. a. Identify fire-sensitive or dependent organisms, populations, and communities at the landscape and global levels. 3. Design prescribed fire and wildfire management strategies for restoring and sustaining ecosystem goods and services. a. Managing fuel loads to minimize potential catastrophic fires b. Design prescribed burning regimes for various species. c. Develop a prescribed burning plan
ESSM	420	1	Ecological Restoration of Wetland and Riparian Systems	How wetland and riparian areas link terrestrial and aquatic systems and function hydrologically and ecologically within watersheds; integrated approaches for restoration of degraded wetland and riparian systems; improving water resources through vegetation management with a special interest in rangelands.
GEOG	201	4	Introduction to Human Geography	A survey of the major systems of man-land relations of the world and their dissimilar developments; the processes of innovation, diffusion, and adaptation stressed with regard to changing relationships between people and their environment.
GEOG	202	7	Geography of the Global Village	Survey of world regions; globalization; environmental problems at multiple scales; human-environment interactions; cultural coherence and diversity; population and settlement; geopolitics; social and economic development; place identification.
GEOG	203	4	Planet Earth	The ultimate goal of this course is to provide each student with a better appreciation and understanding of planet earth. This course takes an earth systems approach to studying the planet we inhabit. All of the Earth's spheres – the atmosphere (weather & climate), hydrosphere (water in all its forms), lithosphere (earth's surface), and biosphere (living organisms (plants and animals)) – are examined in detail. The lectures and the labs explore the complex interactions between these spheres as well as how they affect (and are affected by) humans.
GEOG	205	1	Environmental Change	Systems perspective on important attributes, elements, and connections within earth's physical environment; dynamic nature of environment at multiple spatial and temporal scales.
GEOG	304	1	Economic Geography	Geography 304 is an introductory course in the field of economic geography. It is designed to provide students with a solid foundation in the concepts, theories and approaches on which the field of economic geography is based. This includes the location of economic activities over the earth, the distribution of agriculture, manufacturing, tertiary activities and transportation and the economic growth of areas. This disciplinary overview will be presented in the context of the contemporary world economy.
GEOG	306	1	Urban Geography	The world today is defined by intensifying global connections and flows, and cities are some of the most important nodes in these processes of globalization. Over half of the world's population now lives in cities and many of these cities are located in coastal regions that are vulnerable to the growing threat of climate change and sea level rise. In this course, we will explore the various problems facing cities, both in the U.S and abroad. We will also examine how these problems have developed historically in different places and regions. Our overarching aim will be to answer the following question: What has, is, and will be the impact of global urbanization on environment and society, and on governments facing increased social, cultural, and political diversity? In answering this question, the course provides an introduction to major discussions and debates in urban geography. Students in the course will explore key concepts from the field and become familiar with contemporary trends and challenges facing researchers. They will also look at case studies to learn how geographers do not simply study urban problems and processes, but actively contribute to solutions for protecting and improving
GEOG	309	1	Geography of Energy	Development of high-energy society; renewable and nonrenewable energy resources; physical and social economies of energy use; geography of energy; energy problems and decisions; dependence of other resources on energy; alternative energy future
GEOG	311	1	Cultural Geography	Human factors which affect man-land relationship; concept of culture, culture areas; population growth and migrations, types of economic activity, urban and transportation geography.
GEOG	320	1	The Middle East	This course is a survey of the regional geography of the Middle East, including the physical setting, environmental issues, urban-economic development and the historical evolution of the landscapes and cultures. Special emphasis placed on understanding the overall physical and human geography of the region and the historical backgrounds to current geopolitical conflicts (such as the Arab-Israeli conflict in the 20th century and the ongoing "Arab Spring"), as well as some of the environmental and societal issues facing the ME in the early 21st century.

GEOG	330	1	Resources and the Environment	Changing demand for land and sea resources; international conditions of population growth, resource depletion and geopolitical control; resource perceptions and decision-making.
GEOG	401	1	Political Geography	The political process at a variety of geographic scales: international, intranational and urban; origins of territorial organization and conflicts over access to and use of space and its resources.
GEOG	430	1	Environmental Justice	Exploration into the spatial variability and human geography of exposure to environmental hazards in U.S. and international contexts; emphasizes environmental equity and environmental racism as it relates to occupational, leisure, and residential geography.
GEOL	420	1	Environmental Geology	Geologic concepts of the nature of geologic environments and the dynamics of geologic processes needed to characterize and quantify human interactions with specific geologic systems including aquifers, watershed, coastlines and wetlands; specific techniques, including geophysical and geochemical techniques, field mapping, geographical information systems and remote sensing used to monitor human-geosphere interactions.
GEOS	105	1	Introduction to Environmental Geosciences	Key concepts and generalizations of global environmental issues within an Earth systems science framework including climate change, air pollution, land and coastal degradation, water resources and pollution, and habitat loss; environmental ethics, economics and politics; environmental issues in Texas.
GEOS	210	1	Climate Change	Examination of the science of climate change; how greenhouse gases warm the planet; scientific evidence that the earth is warming; scientific evidence that humans are causing this warming; what warming we can expect in the future and impacts of that warming.
GEOS	401	1	Polar Regions of the Earth: Science, Society and Discovery	Overview of disciplines and topics that define modern polar science in the north and the south; includes history of the Polar Regions, polar geosciences, major polar scientific projects, and special topics; participate as individuals and teams in education, outreach and science projects. To comprehend that the earth is a co-dependent system of systems, to recognize the importance of the polar regions in the earth system, to analyze the conflicting evidence of global change and its ramifications, and to determine the role of humans in earth system change.
GEOS	405	3	Environmental Geosciences	Dynamics and human interactions with near-surface environments including land, atmosphere and oceans through problem-based learning; interdisciplinary environmental problem topic, for example, water quality, urbanization, coastal development, or environmental pollution; geoscience techniques used for monitoring human-geosphere interaction.
GEOS	430	1	Global Science & Policy Making	Central to many of the most pressing contemporary issues facing our nation and the world is the need for knowledge of how our planet functions and responds to stresses and forcings of various types. Whether it be climate change, relative sea level rise, the search for and ultimate depletion of fossil fuels, the status of water resources now and in the future, ecosystem-based management, the loss of biodiversity, or other issues, understanding of the co-dependent living and non-living systems that make up our planet is critical for a healthy planet. So how do knowledge, information, predictive models and data produced by scientists and researchers inform societal decisions about critical issues in the face of competing demands and often-conflicting objectives?
GEOS	481	4	Seminar	Acquaint students with current research themes in the environmental field.
HISP	362	3	Latino/a Literature	Literature by U.S.-based Latino/a authors writing mostly in English; examination of historical and social contexts of cultural production; may include novels, poetry, short stories, plays, and films to gain understanding of aesthetic expression of diverse Latino/a authors, including but not limited to Mexican Americans, Puerto Ricans, Cuban Americans and Dominican Americans.
HIST	258	1	American Indian History	Survey of American Indian history; Pre-Columbian, First Contact, Colonial Conquest, Differentiation between cultural groups; Reservation period, twentieth-century self-determination, and Pan-Indianism.
HIST	280	8	The Civil Rights Movement-Reconsidered	The public usually imagines the Civil Rights Movement in the US as being African-American, taking place in the US Southeast, and occurring from 1954 - 1968. There were several Civil Rights Movements taking place across the US however. Additionally, most, including the African American movement, date back to the early 20th century or even the late 19th century. In this course, we will examine the African American, Latino, and American Indian Civil Rights Movements. We will examine the causes, effects, significance, and trajectories of these movements.
HIST	305	1	Mexican American History 1848-Present	Social, economic and political evolution of Mexican Americans from 1848 to present; adaptation to a harsh and isolated frontier; land tenure systems; conflict in the new Southwest; change and continuity in society; immigration and settlement of Mexicans; emergence of various political movements; current issues.
HIST	307	1	Latino Communities in the US	Hispanic or "Latino" communities of 20th century U.S.: Mexican Americans, Puerto Ricans, Cubans and Central Americans; differences in historical experiences; role of race, class, and gender; cultural identity as expressed in art, literature, folklore and religion; contemporary social, political, and economic issues.
HIST	360	1	The History of Energy	The outcome of this course is an understanding of the history of energy in the United States. Particular emphasis is on technological change along with political, economic and social responses. Our goal is to cultivate awareness of the forces that have shaped energy exploitation and consumption and hence our contemporary society.
HIST	481	8	Chicana/o and Puerto Rican Social Movements	This course takes a comparative approach to civil rights history by examining the Chicana/o and Puerto Rican social movements between the 1930s and 1970s. We will explore how these movements took shape in different regions across the U.S., the bonds formed with black and Native American struggles for equality, the role of federal initiatives like the "War on Poverty," and the multiple discourses that emerged around cultural nationalism, gender, sexuality, and racial identity. We will also examine how the changing and emerging historiography on Chicana/o and Puerto Rican struggles for equality is shaping Latina/o history in the twenty-first century.
HLTH	222	1	Concepts in Peer Health Education	Preparation as peer educators and campus community leaders; experiential learning; includes various health topics, program development, presentation and public speaking, communication and group facilitation. Enhancing cultural competency. Learning how to educate peers about health and wellness.
HLTH	231	4	Healthy Lifestyles	Health issues relevant to students; included are mental health, use and abuse of drugs, human sexuality, communicable diseases, environmental and consumer health.
HLTH	236	10	Race, Ethnicity, and Health	Explore in-depth the racial, ethnic, and cultural dimensions that underlie health and health disparities; emphasis on culture, social economic status and governmental policies as they influence the adaptation of health practices.
HLTH	331	3	Community Health	Aspects of the community that relate to health; identification and analysis of community health programs; organizational pattern and functions of voluntary and governmental health agencies; organizing the community for health action; and coordination of school and community health programs.

HLTH	334	2	Women's Health	Women's Health is designed to provide you, the student, with the opportunity to explore the health issues and health care concerns of women by identifying a broad range of health topics that are either unique to women or of special importance to women. The multidimensional roles of American women as individuals, partners, mothers, nurturers, caretakers, and career persons create a need for their health status to be of vital importance. While women and men both experience similar diseases, disorders, and causes of death, women often experience these in different forms and at different stages and ages in life. Analyze the cultural, social, economic, and political state of affairs of women's health. Determine the relationship between values, lifestyle, socioeconomic status and education in the healthcare and behaviors of women
HLTH	407	2	Global Health	Global/International Health is a three credit hour course designed to provide an overview of global health issues from a synthesis of historical, cultural, environmental, economic, and political perspectives. Students will be challenged to examine their pre-existing beliefs and attitudes towards global health and to consider world views other than their own about health issues and resolutions.
HLTH	429	4	Environmental Health	Health aspects of environments; health problems related to water, air and noise pollution; pesticides; population and radiation; examination of various micro-environments which either promote or hinder human health and well-being and their implications for community planning and utilization of human resources.
HORT	306	1	Trees & Scrubs for Sustainable Built Environments	Trees and Shrubs for Sustainable Built Environments. (2-2). Credit 3. Better known woody ornamental trees and shrubs; identification, morphology, classification, nomenclature and adaptability for use in landscape environments.
HORT	335	1	Sociohorticulture	Horticulture as it relates to humans through people-plant interactions; use of horticulture to improve quality of life; awareness and appreciation of the economic, environmental, social and health benefits of plants.
IBUS	450	4	International Environment of Business	International business and globalization issues are increasingly important factors facing managers of U.S. based organizations. This course serves as an introduction to the global business environment, focusing upon material designed to broaden students' awareness of international markets and trends, trade and financial relationships between countries, and operational aspects of entering and conducting business in foreign markets. Concepts and principles from other business courses are applicable in this course, though they are approached from a perspective of international contexts. Corporate Social Responsibility is a focus on this course.
IBUS	452	2	International Management	This course is a survey of the field of international management. It is divided into four parts. The first part of the course examines the global manager's environment (e.g., political, economic, legal and technological environment) as well as ethics and CSR issues. The second part of the course focuses upon the cultural context of global management (e.g., role of culture, cross-cultural communication, negotiation and decision making. Finally, the third part of the course surveys the major issues in global human resources management (e.g., staffing, training, and compensation, management development and motivation).
INST	222	8	Foundations of Education in Multicultural Society	This is a core course, which is intended to provide prospective teachers - and other professionals - with background information and insight into the cultural, historical, and philosophical foundations of education in a multicultural society. Using a constructivist approach, students will become aware of the issues that are pertinent to being diversity conscious in culturally, linguistically, ethnically, and economically diverse (CLEED) world.
INTS	201	1	Introduction to International Studies	Introduction to the field of international studies through examination of diverse processes of globalization; interdisciplinary survey of the social, political, economic, and cultural patterns that have defined the modern world; basic concepts and frameworks for analyzing global events and understanding the current international situation.
INTS	301	1	Theories of Globalization	This course explores various aspects and theories of globalization and development. We consider how nation states have been influenced by globalization, and the debates surrounding the effective governance of globalization. It explores theories from different academic disciplines: economics, political science, sociology and history. This course provides students with an understanding of the costs and benefits of globalization, as well as with a basis for considering the challenges that economic openness poses to governments, especially to those in emerging markets. It also seeks to discover the relation between democracy and capitalism, national sovereignty versus national interdependence, the implications of technological revolution, media, ecological risk, the cultural dimensions of globalization and modernity, U.S. hegemony, the shift to a multi-polar world from a theoretical perspective. Most importantly, this course allows students to conduct a research of their own on an important issue regarding the implications of globalization for economic and political stability of nation states in the world.
INTS	407	2	Diversity in a Globalized World	Examination of the cultural constructs that arise through the encounters with colonialism from the conquest of the Americas to the present; cultural studies and literary analysis to identify and interrogate the common principles of human interaction in the face of cultural diversity.
INTS	409	1	Culture, Neoliberalism, Globalism	This course offers students the opportunity for a critical reflection about present global reality. It provides students with the theoretical tools for understanding the complex network of interrelationships and implications that ties together Neoliberalism, Globalism, and Culture nowadays. Following the leading topic of the symbolic-political problem of the proliferation of new walls in the contemporary globalized world, the course focuses on the tensions between cultural differences and global cosmopolitanism, between the continuous emphasis on national sovereignty and the insistence on the priority of transnational economic flows. Through a trans-disciplinary approach, the course guides students toward an appreciation of the role played by politics, economics and culture in shaping symbolic and socio-political spaces of the contemporary globalized world. Also, the variety of the materials (theoretical, photographic, journalistic, artistic works, documentary films, and fiction movies) presented will give students the opportunity to engage in comparisons and contrasts among diverse possible manners of critical reflection of addressing global cultural, political, social, and economic problems.
INTS	489	1	Contemporary Issues in the Middle East	The purpose of this course is to equip the students with the theoretical and empirical knowledge necessary to understand the region, its culture, society and politics within the historical context. It will address set of enduring issues in Middle East international relations such as the Arab Spring, the evolving US role in the region, the Arab-Israeli Conflict, the challenge of Iran, the war in Iraq, and political Islam.
KINE	289	2	Special Topics in Student Wellness	This course will explore and utilize the eight dimensions of wellness to enhance student life. Emphasis will be placed on components of student life including personal, social, occupational, and intellectual development. Participatory learning will take place through discussions with guest facilitators, technology, peer leadership, and service. 1. Students will be able to explain the outcomes of healthy and unhealthy lifestyle choices regarding physical fitness, nutrition, drugs, alcohol, and social media. 2. Students will demonstrate personal responsibility in areas of wellness. 3. Students will examine diversity, inclusion and equity through team-based learning.



KNFB	222	2	Teaching in Modern Society	In this course you and your classmates will develop an understanding of teaching and learning in multiple settings, including school and community venues. Using reflection (a calm lengthy intent consideration) you will explore the development, structure, management, and finance of modern schools; philosophical, historical, ethical, and moral dimensions of teaching; the role of schooling in a democratic society; contextual issues in schools such as race, class, gender, sexual orientation, ethnicity, language, religion, learning styles, physical abilities and culture; and teaching as a profession.
LBAR	181	13	First-Year Seminar in the Liberal Arts	This course will be taught as a seminar, which means that the goals of the course are to foster discussion, encourage social criticism and critical thinking, and develop lifelong habits of questioning, thinking about, and discussing social issues.
MEEN	437	1	Principles of Building Energy Analysis	Analysis of building energy use by applying thermodynamics and heat transfer to building heating and cooling load calculations; heat balance and radiant time series calculation methods; psychometric analysis, indoor air quality, effect of solar radiation on heating and cooling of buildings. Required design project
MEEN	469	1	Alternative Energy Conversions	Design and analysis of alternative energy conversion processes and systems that are based on converting energy directly (e.g., fuel cells, photovoltaics), utilizing non-combustible heat sources (e.g. geothermal, ocean gradients, solar, and nuclear fission and fusion) and obtaining energy from the environment (e.g. wind, hydroelectric, ocean tides and waves).
MEEN	477	1	Air Pollution Engineering	Design of air pollution abatement equipment and systems to include cyclones, bag filters, and scrubbers; air pollution regulations; permitting; dispersion modeling; National Ambient Air Quality Standards.
MGMT	430	1	Employment Discrimination Law	Legal issues surrounding employment discrimination, including disparate treatment and impact; intent; affirmative action; sexual harassment; pregnancy, sex, race, religious, salary, disability, age, and ethnic discrimination; policy issues and perspectives to aid human resource specialists and managers.
NUTR	430	1	Community Nutrition	Health and nutrition programs, food labeling, cultural food practices, consumer education and marketing.
OCNG	251	16	Oceanography	Overview of the ocean environment; interrelation of the subdisciplines of ocean sciences; importance of the oceans to human beings; human impact on the oceans.
OCNG	420	1	Introduction to Biological Oceanography	This course will focus on biological aspects of the ocean: diverse marine environments, productivity and the carbon cycle, living marine resources, fisheries, marine mammals, and environmental concerns such as climate change, pollution and harmful algal blooms.
PERF	285	1	Performance in World Cultures	Application of the tools of performance studies to explore the enactment of the arts in world cultures and the ways the people of every society express themselves in performance; examination of different genres of performance through music, theatre, verbal art and dress. This course examines a variety of global performance traditions. We begin with an understanding that both aesthetic and quotidian performances reveal much about the individuals, groups, and cultures that create and experience them. This course will challenge students to discard their biases in favor of openmindedness and differing perspectives. We will identify the customs and particularities of several performance traditions and strive to comprehend them from a culturally relative position, which will thus enrich our own worldviews.
PHIL	111	7	Contemporary Moral Issues	Representative ethical positions and their application to contemporary social problems.
PHIL	252	1	Introduction to Hip-Hop Philosophy	Introduction to philosophy by way of the major themes and subjects of Hip-Hop; critical advocacy of various philosophical ideals. This class aims to introduce the student to various philosophical conceptualizations of the human condition. Rather than simply enable the student to recall the thoughts of dead white men and women, who lived centuries ago, this class is interested in allowing the students to become critical advocates of their own life circumstances through the integration of differing cultural and political lens. Much like Hip-Hop, the lessons learned from these readings intend to aid the students in becoming proactive thinkers that are willing to challenge, resist, and when necessary defend the various perspectives that arise from the political, ethical, and personal burdens that accompany their individual freedom and societal responsibilities.
PHIL	314	1	Environmental Ethics	Moral basis of duties to preserve or protect plants, animals and environmental systems; foundations of environmental law and policy; the idea of nature in philosophy; critique of social and economic analyses of environmental values.
PHIL	482	1	Ethics and Engineering	Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability and conflicts of interest; emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.
PHLT	303	1	Social Context of Public Health	This course explores social determinants of population health and the socio-cultural roots of health improvement. It discusses the socio-economic, behavioral and other factors that impact population health and contribute to health improvement and health disparities. Topics include socio-cultural definitions and perceptions of health, wellness, and healing; cultural, social, and individual values and their impact on choices and behaviors; macro and community dynamics; socio-cultural impact on determinants of health; socio-economic determinants of health; protective effects of social networks, social norms, and cultural belief systems; disease stigma; cross-cultural and global comparison case studies; social context of public health policy; cultural competency; social biases and institutional discrimination; equity and social justice; the balance between individual and social benefits, rights, and restrictions; key concepts of sociology and anthropology for public health practice; basics of social behavioral change theories; impact of social networks, leadership structures, opinion leaders, and change agents.
PHLT	330	1	The Environment & Public Health	This public health core knowledge course addresses factors that pose risks and hazards to population health in the environment and in specific contexts such as homes, workplaces, consumer products, and in natural and man-made disasters. Topics include the methods for defining environmental contamination; identifying contaminants, pathogens and toxins; assessing risks and causality; determining health impact; ameliorating hazards; and protecting the population through waste management, regulatory programs, environmental inspections, food and product safety, and environmental policy. Includes interaction with professionals in public health practice through scheduled guest lectures
POLS	306	2	Diversity and Public Administration	Many public organizations have implemented diversity initiatives to better serve their employees and external constituents, while simultaneously enhancing productivity, effectiveness and sustained competitiveness. Workplace diversity is both a productivity issue and a risk 2 management issue. Further, federal efforts and initiatives have pointed out the importance of diversity in the government workplace. What changes are occurring in U.S. society as a result of diversity? How are governments responding to the changing demographics? This course will address these and other important questions about the role, importance, and impact of diversity in public organizations in Texas in particular and in U.S. society in general.

POLS	306	2	State and Local Government	The United States is fast becoming a multiracial, multicultural, and multilingual country. The literature is reporting that ethnic minorities are increasingly becoming a larger and larger proportion of the U.S. population and its workforce. Some data now show that Texas is a minority-majority state. These demographic changes pose a number of tremendous challenges for Texas and American society in general and the public sector in particular. The challenges for the public sector include maintaining a delicate balance between quality, human well-being and public service policy and programming, and public service delivery. Indeed, both Texas and the United States are faced with major challenges in how to grapple with diversity in all facets of life and in all institutions, including political, government, and business institutions. Therefore, it is no accident that public organizations in the U.S. are concerned about both workplace diversity and diversity in society. The concept of diversity not only takes into account race, ethnicity and gender. It also includes other ways in which individuals are different from one another, including age, sexual preference, and disability. Diversity may be viewed as differing cultures, languages, ethnicity, race, sexual orientations, religious sects, abilities, classes, ages and the origin of individuals in an institution or community.
POLS	367	1	Women in Government Around the World	This course examines the evolution of women's representation in governments around the world, with a focus on the legislative and executive branches of democratic governments. We will explore factors theorized to affect both the supply of and demand for female candidates and appointees and when and why political institutions impact women and men differently. The course provides an in-depth exploration of scholarly literature about representation of women in politics and class members will gather data and conduct comparative research about representation of women in politics.
POLS	429	1	Issues in World Politics	This is an undergraduate course on conflict and cooperation in the area of international environmental politics. The course will discuss how environmental issues became a major concern internationally. After identifying today's major environmental threats, the course will examine how diverse actors, including local activists, nongovernmental organizations, advocacy networks, scientific communities, governments, private companies and international organizations contribute to international responses to contemporary environmental issues. Topics to be covered include demography, climate politics, biodiversity, and sustainable development.
RDNG	371	2	Multicultural and Interdisciplinary Literature for Middle Grades	Focuses on multicultural and interdisciplinary literature appropriate for middle grades students; implements and evaluates effective multicultural, interdisciplinary instruction through selection, use and development of literature in middle grades classroom.
RENR	205	3	Fundamentals of Ecology Lab	Principles of ecology using a holistic approach treating plants, animals and humans as one integrated whole; composition, structure, nutrient cycles and energetics of biotic communities; adaptations to environmental factors; biotic relationships; and problems of environmental quality and resource use.
RENR	375	2	Conservation of Natural Resources	Principles and philosophies associated with the development, management and use of natural resources; ecological and social implications inherent in management alternatives involving the natural environment and use of renewable natural resources.
RENR	405	1	GIS for Environmental Problem Solving	Interdisciplinary approach to train students to integrate GIS and relevant technologies for environmental problem solving; helps students relate learning to real world situations; students conceptualize, develop and manage projects using real data; one term project required.
RENR	460	1	Nature, Values, and Protected Lands	Writing-intensive discussion of the ways in which protected areas reflect human values about nature; identify stakeholders in and around protected areas, exploring how interests either conflict or coincide; evaluate social, economic, cultural, and ecological trade-offs of different approaches to conservation.
RPTS	316	1	Recreational Management of Wildlands	Management and recreational use of wild and wilderness areas and multiple use management areas; systems and techniques for dealing with management problems in outdoor recreation.
RPTS	340	2	Recreation, Parks, Tourism and Diverse Populations	Review of major judicial decisions and civil rights laws on provision and distribution of leisure services in society; influence of age, disability, ethnicity, national origin, race, religion and gender on individual's preferences for particular experiences; implications of individual differences for the provision of services.
RPTS	402	1	Park Planning and Design	This course is about people and places. In particular, it is about parks and other places where people spend leisure time. The course reviews the importance of an environmental and social ethic in planning and design, the process and products, and how planning and design of a place can influence people. You should complete the course having gained knowledge that will help you to contribute to a planning or design process and be able to critically examine various types of plans and designs. The course should provide you with a better understanding of physical and social environments and the role that parks and tourism places can play in sustaining them.
RPTS	408	1	Community Development and Supporting Institutions	Scope, function and mission of domestic and international organizations that support community development efforts.
RPTS	426	1	Tourism Impacts	Consequences and impacts of various kinds of tourism development for host communities and regions; read and evaluate case studies from Texas, other areas in the United States and internationally; economic, environmental, social, cultural and political impacts associated with tourism proposals, project development, tourist activity, industry expansion and industry decline.
SCEN	201	2	Self-Directed Experiences with Adolescents	Study of adolescents in diverse school and community settings; issues in physical, mental, social and emotional development; issues related to racism, sexism, and cultural diversity; development, presentation, and defense of portfolio required.
SCSC	205	1	Problem Solving in Plant & Soil Systems	This class will introduce you to methods needed for observation, identification, data collection and analysis, and synthesis of problems that typically arise in management of soils, crops, and natural resources. The course is comprised of a group project where you will work on a real-world problem which includes identifying major issues challenging plant growth and response. You should expect to get hands-on experience in soil and plant data management and collection and strengthen your problem solving and communication skills through analysis, reporting, and team work. Lauren and I will facilitate your successful completion of this project and expect that you will develop skills in working autonomously while discovering processes commonly observed in soil and plant sciences. Course is rooted in sustainability as its lens for understanding soil and how it impacts society socially, environmentally, and economically.
SOCI	203	2	US-Mexico Border Sociology	Description: Understanding of the US-Mexico border from different theoretical perspectives and disciplines, including structural violence, identity, power, demography, and sociology. This course is designed to introduce you to sociological understandings of the US-Mexico border. This border is much more than a geographical divide established by international treaties. It has a power and a force that structures and patterns human behavior, identity, and belonging for people who live near it, cross it, locate it in their memory, and see its effects on their family and friends. It has political, social, emotional, ethical and economic components.
SOCI	206	1	Global Social Trends	Long-term trends in world societies from ancient times to the present and to the foreseeable future; emphasis on contemporary international issues and problems, techniques of analysis and future projections.
SOCI	207	2	Introduction to Gender and Society	Similarities and differences between females and males in a number of cultures throughout the world; sociological analysis of gender in relation to social structure.

SOCI	314	3	Social Problems	Survey and exploration of causes and consequences of major social problems in American society such as poverty, unemployment, energy, alcohol, other drugs and sexual abuse.
SOCI	316	1	Sociology of Gender	This course will explore the social and cultural construction of gender and gender differences. We will examine the dynamics of gender in empirical studies of varied sites of social life, including the constitution of experiences of embodiment; immigration; families, work sexuality, intimacy; and in the contexts of globalization. Gender is also a “troubled” category, seemingly fixed but unstable, and impacted by other dimensions of difference and inequality. Throughout the semester we will attend to these issues as well as to situated articulations of gender and social class, racial ethnicity, nationality, sexuality, and other lines of power-laden differences.
SOCI	317	2	Racial and Ethnic Relations	Status of racial and ethnic groups such as Native Americans, African Americans, Latino Americans, Asian Americans, European Americans, and other groups in the political, economic, legal and social systems of the United States.
SOCI	323	1	Sociology of African Americans	Major elements of the Afro-American subculture in relation to white American society and its major social institutions.
SOCI	415	1	Sociology of Education	I have two major course objectives. The first is for you to become familiar with literature in the Sociology of Education. This includes knowing contemporary issues in the area of the Sociology of Education, and learning research findings concerning the Sociology of Education. My second major course objective is for you to engage in critical thinking related to social issues, which means learning the pros and cons surrounding issues. Even if you decide to stay with your original opinion on a topic, your opinion will now have become an informed opinion; one more thoughtful and textured, and one that will serve you better in the future.
SOCI	425	1	Medical Sociology	The relationship between society and health explores social and environmental determinants of health and illness including the decline of mortality from infectious disease and the extent to which this was due to social vs. medical factors; the prevalence of illness/mortality in various population subgroups, and why disease rates differ across groups; and the relationship between stress and health. Health behaviors focus on health behaviors and the critical evaluation of the “individual responsibility” approach to health prevention. Illness behavior and medicalization focuses on actions taken when one experiences symptoms, and the social construction of medical conditions. The discussion on medical practitioners explores the power of physicians in medicine and in society; challenges to physician dominance and autonomy; medicine as an institution of social control; complementary and alternative medicine; and the physician-patient relationship. The health care delivery system covers health care costs; increasing commercialization in the health care system; public and private financing of health care; and social, economic, and ethical issues associated with advanced health care technology.
SPAN	312	2	Hispanic Culture and Civilization: 18th Century to Present	Overview of the Hispanic world, including the United States, from independence in the Americas to present; description and analysis of artistic, historical, literary, political, sociolinguistic topics. Taught in Spanish.
SPAN	350	1	Contemporary Hispanic Society & Culture	In this class, we will analyze and discuss films and documentaries regarding issues salient to the sociopolitical conditions of the Hispanic world today. Issues such as poverty, enforced disappearances and abductions, trafficking in drugs and human beings, homosexuality vis-a-vis heterosexuality, abuse of domestic workers, racism and discrimination against indigenous and black people in Latin America will be reviewed in the course.
SPMT	336	2	Diversity in Sport Organizations	Examine an encompassing perspective of diversity within North American and international sport organizations.
TEFB	273	7	Introduction to Culture, Community and Schools	Field-based course that introduces the culture of schooling and classrooms for analysis within the lens of language, gender, racial, socio-economic, ethnic and academic diversity; the family as a partner in education and educational equality discussed.
TEFB	507	5	Introduction to Culture, Community, Society and Schools	This is a field-based course that introduces the culture of schooling and classrooms for analysis within the scope of language, gender, racial, socio-economic, ethnic and academic diversity, and educational equity. Students will be able to identify diverse structures and needs of the contemporary family, understand cultural pluralism in relationship to ethnic/cultural families and examine learning experiences that address the diversity of a child’s knowledge, strengths, and experiences. Students will be able to understand the effects of poverty on the lives of children and their families and explore educational practices that ensure equitable access to the best possible education for all children.
UGST	484	3	Sustainability Outreach Specialist Internship	Sustainability is a growing field that uses a holistic lens to investigate and problem solve the environmental, social, and economic problems that our world faces. The goal of the Office of Sustainability’s Internship Program is to bring people from a variety of backgrounds and perspectives together to create a dynamic team that works to create a culture of sustainability at Texas A&M University. The team will focus on increasing the sustainability of practices such as energy and water use, transportation, food services, construction and built environment, purchasing, recycling, and social justice through the development of outreach initiatives and event coordination, and by fostering campus partnerships to facilitate institutional change.
URPN	201	4	The Evolving City	This course introduces students to the history of contemporary urban and regional planning, and how the evolving forms of cities and regions pose opportunities and challenges for planners. This course helps students to understand key social, economic, political, and technological forces that shape city form and function and its ramification for urban and regional planning. It covers the evolution of cities, history of planning, and contemporary issues in planning.
URPN	202	1	Building Better Cities	This course will introduce students to contemporary issues of urbanization, past influences and current practice of public planning in the United States and abroad, discuss multi-dimensions & multi-disciplines of urban and regional planning. It will explore a variety of methods and strategies for planning and building better cities and critique ethical and economic implications of urban planning domains and outcomes. URPN 202 will develop students’ sense of social responsibility, including intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities.
URPN	361	2	Urban Issues	The world is becoming increasingly urban. In the United States, 3 out of 4 people live in urban areas, and in the rest of the world numbers are increasing. How did cities emerge? What makes cities grow? How do cities work? Are they sustainable? These are introductory themes that we expect to answer in this class: the evolution and development of cities; the socio-economic, cultural and physical development of urban areas; and their contemporary problems such as, unemployment and poverty, crime, public health, racial tension, environment (pollution, disasters, desertification, and degradation) and other quality of life issues.
URPN	370	2	Introduction to Health Systems Planning	This course introduces students to health systems planning in the U.S. Course activities focus on strategic planning process at the community and organizational levels, different models of “health,” changing values, demographics, national health policies, and many other pressures impacting health and health care in the United States.
URPN	460	1	Sustainable Communities	Focuses on sustainable community with applications in public policy/design including societal organization, disciplinary bound design and policy, and empowered approaches to design, social ecology and public policy; reading and review of relevant literature on sustainability, complemented with exercises to illustrate underlying principles.
VIBS	222	1	Great Poisonings of the World	Exploration of the effect of intentional and accidental man-made and natural “poisonings” on humans and the environment and their impact on public policy. At the end of the course students will be able to define how environmental contaminations continue to shape US and international policy and social interactions. Students will be able to debate the economic, social and regulatory impact of pollutants on the environment.

VTPB	303	1	Medical Communication in the International Community	The goal of this course is to introduce students to Costa Rican culture and cultural communication through experiential learning (field trips, homestays, institutes, clinic tours, independent travel, etc.), readings from the primary and popular literature, and presentations by local people and academics. Students will be asked to compare and contrast the Costa Rican culture and health care systems with those of the USA. Faculty and students with experience in other cultures will be encouraged to compare and contrast their experiences in Costa Rica in order to allow students to better understand Latin American culture as a whole. Students will also look at the cultural differences and cultural issues between the native Costa Ricans and the US expatriates living in Costa Rica. Topics such as medical tourism, rural medicine, veterinary care, water quality, and public opinions of conservation will also be investigated. Students will be required to read Costa Rican English (Tico Times) or Spanish (La Nación) news media (depending on language ability) and present brief oral and written overviews of news items on health and the environment. Each student will be required to complete a case study on an important health or environmental threat. The case study will 1) discuss how this threat can affect human health, animal health and/or biodiversity conservation, 2) show how perceptions of this threat change among different cultures and information sources, and 3) develop a plan to mitigate the effects of this threat.
VTPB	489	1	Special Topics in One Health & Ecology in the Tropics	This course will mix traditional lectures, guest lectures, field excursions, field laboratories, discussions, readings, student oral presentations and case studies to introduce students to the fields of One Health and Tropical Ecology. The course will introduce students to the form and function of healthy ecosystems, the various forms of ecosystem perturbation, and how these perturbations influence ecosystem, animal, and human health. Lecture material will draw heavily on examples relevant to Costa Rica and Latin America. These examples will then be illustrated and reinforced through field activities.
WFSC	301	1	Wildlife and the Changing Environment	Using an ecosystem approach, analyzes changes in the North American environment; effects of these changes on wildlife populations; and reviews areas of major, current concern.
WFSC	304	1	Wildlife and Fisheries Conservation	Ecological principles used to conserve and manage wildlife and fisheries resources at the individual, population and community levels; topics include conservation biology, species interactions, animal-habitat relationships, population dynamics and harvesting, habitat management and restoration and human dimensions of fish and wildlife conservation.
WFSC	405	2	Urban Wildlife & Fisheries Management	This course consists of an in-depth examination of the ecological, cultural, political, and economic consequences of the presence of wildlife in urban communities.
AERO	401	2	Introduction to Aerospace Engineering	Overview of aerospace engineering and the aerospace industry, including requirements and assignments of an aerospace engineer, vehicle configurations and missions, aerodynamics, structures and materials, dynamics and control, simulation and testing, and aerospace engineering in the future. Sustainability aspects covered.
AFST	201	1	Introduction to Africana Studies	Introduction to the field of Africana Studies: interdisciplinary approach drawing from history, philosophy, sociology, political studies, literature and performance studies; explores the African foundational relationship to and connections with its diaspora populations; covers Africa, the United States, the Caribbean, Europe and South America. • Identify and discuss the main contours and major developments in Africana Studies • Recognize and challenge intellectual hegemony • Critically engage academic orthodoxies and explore alternative paradigms and theories
AFST	206	1	Black Psychology	Critical examination of psychological experience, theories, and methods from perspectives grounded in the "Black experience." Apply an awareness of the "Black experience" as it relates to psychology; Articulate an approach to psychology that integrates the "Black experience; Compare and contrast Africentric and Eurocentric perspectives; Discuss the importance of diverse perspectives for the field of psychology.
AFST	327	1	Popular Music in the African Diaspora	The course material, which spans continents, entails not just a sense of geographic diversity but also an understanding of diverse political, social and cultural circumstances that have shaped the music. It highlights not only the international/global diversity of the music and people/cultures that make the music but also connections among these cultures and with cultures outside them. The important results that I expect for students include intercultural competence, a capacity for local and global engagement, and the sense of social responsibility that such competence and engagement engenders.
AFST	344	1	Africa to 1800	The primary purpose of this course is to provide students with a foundation for understanding modern Africa through the study of its peoples' early economic, social and political history, and an appreciation of their forms of cultural expression: art, architecture, literature (oral and written), and ritual. This course takes a multidisciplinary approach to the African past, making use of methods and analyses taken from a variety of disciplines in the social sciences and humanities. 3. Social Responsibility (to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities). 4. Personal Responsibility (to include the ability to connect choices, actions, and consequences to ethical decision-making).
AGEC	344	1	Food and Agricultural Law	Legal principles relevant to the farm family and business; characteristics of legal decisions and rules on property rights, and fencing laws; analysis of global, national, state, and local legal issues in contracts, torts, water, pollution, and natural resources.
AGSM	201	1	Agricultural Energy and Power Systems	A study of the types of power and energy sources used in agricultural equipment and systems; management considerations for selecting, operating and maintaining internal combustion engines, electric equipment and motors, and renewables as power sources.
AGSM	335	1	Water and Soil Management	Elementary principles of surface and ground water supply, flood control, water distribution systems and irrigation systems; principles of drainage, soil conservation and erosion control; elementary surveying, chaining, leveling and mapping applied to agricultural and natural resource needs; illustrated by practical examples of terracing and farm pond design.
ALED	344	2	Leadership of Volunteers	Leadership of volunteers is a study of human relationships. This course is pragmatic in its approach and one that can be used in volunteer organizations no matter what your title: program coordinator/administrator, board member, paid staff, or volunteer. Class sessions will include an examination of theory (finding out), conceptualizing (taking action), reflection (examining the way we act), and application (applying what we've learned). There are high expectations of you. You are expected to attend class, take an active role in discussion, do your work with excellence, learn from each other, and apply what you've learned.
ALED	424	2	Applied Ethics in Leadership	As a person, it is imperative to recognize an ethical dilemma. As a leader, it is imperative to lead others through those dilemmas. One way to accomplish this is to understand different ethical perspectives and moral theories. This course will not only teach you ethic and moral theories, but will give you ample application opportunities.
ANSC	310	1	Behavior and Management of Domestic Animals	Application of behavior of cattle, horses, sheep, goats and swine to their management; basic principles, physiology of behavior, perception, training, predators, use of dogs in livestock production, stress and animal welfare.

ANSC	351	1	Current Issues in Animal Agriculture	The field of animal agriculture has, of late, been a lightning rod for skeptics and critics with both real and inaccurately perceived criticisms of what, how and why certain things are done. This course is intended to prepare graduates to project a professional image while using their communication skills to describe animal agriculture and to discuss its strengths and weaknesses with others. Module - Is Animal Agriculture Sustainable?
ANTH	324	6	Music in World Cultures	Examination of music from an ethnomusicological perspective focusing on musical performance and the complex interrelationship of music to culture, society and daily life; examination of music from a variety of cultures through a series of case studies.
ANTH	421	1	Museums and their Function	This course examines some of the key issues with which anthropologists, historians, and museums professionals are struggling, including: representation, repatriation and illicit trade in cultural artifacts, globalization and tourism. Themes here include: histories and practices of collecting, the role of anthropology in the development of museums in the West, diversity and ethical issues in the museum, museums as cultural and community spaces, as well as how museums shape and are shaped by society. Module: Revealing Power, Breaking Silences, and Challenging Stereotypes
ANTH	435	1	Medical Anthropology	Medical anthropology is a subfield in anthropology that draws from the four main subfields of anthropology – cultural, biological, linguistic, and archaeology – to examine the biological and cultural basis of health and disease, and to understand the influence of culture on the illness experience and treatment. Modules: Health Disparities, Health & the Environment, & Global Health
ARCH	205	2	Architecture Design 1	Issues and methods in designing environments for human habitation and well-being; projects addressing site, functional planning, spatial ordering, form generation through a recognition of the synthesis of space, structure, use and context; reinforcement of appropriate graphic and model building techniques.
ARCH	335	1	Architectural Systems	Theory and applications of building energy use, envelope design, shading analysis, heating and cooling systems, lighting design; building water supply, plumbing and drainage systems; electrical, acoustical, fire and lightning protection; life safety; transportation systems and construction materials; calculations, equipment selection, and component sizing as they relate to building design.
ARCH	405	5	Architectural Design 4	A comprehensive design studio focused on the integration of design theory with functionally sustainable environmental and structural systems; consideration of a project from site analysis and programming through design detailing.
ARCH	481	2	The Global Impact of the Concept of "Population Health" on the Design of Health Networks & Health Facilities	The student will be exposed to a broad variety of experts and information in the constantly changing area of "Architecture for Health," preparing and informing him/her for a professional focus on health facilities design beginning in design studio projects. Module: Responsible Business, Responsible Design; The Impact of the Natural & Built Environment on American Indian Health
ATMO	201	8	Weather and Climate	Weather and climate play a major role in our lives. This introductory level course explores our earth's atmospheric environment and the processes that produce the daily weather and the resulting climatic conditions we experience. Atmospheric composition and structure, the energy input that drives the atmosphere, pressure and wind, organized weather systems, climate classification and climate change, as well as severe and destructive weather systems are all part of this course. In-class Q&A sessions and a brief once-weekly discussion of weather conditions will be made to put the lecture's material into context and allow you to exercise newly acquired knowledge. There are no prerequisites for this class.
BAEN	464	1	Irrigation and Drainage Engineering	Engineering principles and design of both surface and pressurized irrigation systems; introduction to the design of surface and subsurface drainage systems including crop water requirements, soil moisture, irrigation scheduling, surface irrigation, sprinkler irrigation, trickle irrigation, pumps, pipelines, irrigation canals, irrigation wells, and surface and subsurface drainage.
BEFB	426	1	Effective Instruction for Hispanic Students of Diverse Abilities	In essence, this course is designed to enhance the student teaching experience. The goal is to fine-tune pedagogical theory and praxis. This course allows you, the student teacher, to evaluate, internalize, and apply the knowledge that you have acquired during undergraduate studies and use this to inform teaching and practice. Furthermore, this course will prepare you to become a reflective teacher and a problemsolver as you use research, theories, observations, and analysis to evaluate instruction effectiveness, behavior management, and best practices for working with elementary students in bilingual, duallanguage, and ESL settings.
BEFB	482	1	Seminar in Teacher's as Effective Communicators	This course examines the professional, social, and communicative needs of the bilingual teacher and how to develop those verbal and nonverbal areas in order to increase professional efficacy with students, parents, administrators, and stakeholders. The learner will master the depth of knowledge by synthesizing and conveying pedagogical information to diverse constituents in educational settings. The student will practice personal and social responsibility by demonstrating the process of applying ethical and legal consideration when making decisions and conveying information in the case studies related to students, parents, colleagues, and stakeholders. The student will demonstrate cultural competence by adapting communication (written and verbal) to address diverse populations in responding to the case studies, parent letters, and presentations.
BESC	314	1	Pathogens, the Environment and Society	The impact of microorganisms (bacteria, fungi and viruses) on the development of modern culture and society; the role pathogens played in the history of mankind and the influence of the changing environment on emerging diseases.
BESC	401	1	Bioenvironmental Microbiology	The interactions of microorganism in diverse environments; applied aspects of microbial interactions in the environment, their effects on the environment, and potential use to solve environmental problems.
BIOL	214	2	Genes, Ecology and Evolution	A genetically-based introduction to the study of ecology and evolution; emphasis on the interactions of organisms with each other and with their environment.
BIOL	357	1	Ecology	Analysis of ecosystems at organismal, population, interspecific and community levels. The course begins with a detailed coverage of energy flow and nutrient cycling within ecosystems and then examines various aquatic and terrestrial biomes. This is followed by an examination of plant and animal adaptations, and how these adaptations limit the organism's niche, but enhance its survival. A detailed examination of predation and predation theory follows examination of adaptations. The second half of the course focuses upon population and community ecology, and ends with an examination of biological diversity and its importance to the human population.
CARC	331	1	Field Studies in Design Philosophy	Design philosophy in international and domestic environments away from Texas A&M University campus; emphasis on the historical, philosophical, cultural, social and economic factors that influence design solutions. May be taken up to two times in the same semester. This class will investigate man's understanding of the natural world and mankind's ability to manipulate it through the invention of technology. The course will examine the major figures and cultures during the course of history that influenced scientific innovation.

CHEN	469	1	Chemical Engineering Car Design	CHEN 469 is modeled after the AIChE Chem-E-Car Competition (although the students are not required to participate in the actual competition). The objective of the course is to introduce the students to the principles of the Chem-E-Car design. Individual and group assignments are intended to provide the students with an opportunity to apply chemical, physical, and engineering principles in developing innovative designs. Issues of performance, design specifications, cost, and safety are to be integrated. Grading is based on individual assignments, group activities, class participation, performance and safety assessment, and design creativity.
COMM	203	30	Public Speaking	Public Speaking. Training in speeches of social and technical interest designed to teach students to develop and illustrate ideas and information and to inform, stimulate, and persuade their audiences. Environmental and social justice topics are covered.
COMM	327	1	American Oratory	This is a survey course of significant American oratory; critical analysis of important speeches in their historical, political, social, and philosophical contexts. Course examines slavery, the Civil Rights Movement, women's rights, etc.
COMM	403	1	Media, Children, & Adolescents	This course will explore issues related to children and adolescents in the context of popular culture and mass media. Drawing on literature from communication, media studies, developmental psychology, family studies, sociology, critical race theory and feminist theory we will learn about theories and case studies that help understand how media are sites for constant negotiation and construction of cultural identity for children and adolescents. Media's pivotal role in the shaping of children and adolescents' social, cognitive, emotional, and personal development will be explored. The course is designed for students who wish to learn to think critically about the role of media in the everyday lives of young people and provides a wide-ranging discussion on how media affects and benefits a young audience.
COMM	450	2	Media Campaigns	This course involves the principles of designing media campaigns and advertising as applied to health, crime, and the environment—as well as processes that drive the planning and execution of these campaigns. This course begins with a review of campaign, marketing and advertising basics, including goals, theory, persuasive elements, design, and implementation. It follows with an exploration of media campaigns and advertising in different domains, including health, politics, the environment, and crime.
COSC	325	2	Mechanical, Electrical and Plumbing Systems in Construction 1	Design, operation, materials and installation methods of mechanical, electrical and plumbing systems in construction. Sustainability covered.
COSC	326	1	Mechanical, Electrical and Plumbing Systems in Construction 2	In depth coverage of mechanical, electrical and plumbing (MEP) system operations, materials and installation methods; development of MEP drawings, specifications and contract documents as used in MEP specialty contracting industry.
COSC	381	1	Professional Ethics in the Construction Industry	Professional Ethics in the Construction Industry. (1-0). Credit 1. Principles of ethical behavior in preparation for a professional internship with a construction or construction-related company; various construction company case studies emphasizing: personal accountability, integrity, moral courage, individual, association and company codes of conduct; accepted business practices, decision making, company cultures, peer pressure, public opinion and work ethic. 1.0 Credit hours 1.0 Lecture hours Prerequisites: Admission to upper level in Construction Science
COSC	450	1	Facility Management Principles and Practices	Principles of facility management; the life cycle of a project; strategic planning; performance measurements; life cycle cost approach; building sustainability; maintenance management; and industry practices
COSC	441	1	Residential Capstone	A senior capstone course for students preparing to enter the residential construction sector; Development & project management of residential construction projects, including: aspects of design, bidding/estimating, presentation contracts/negotiation, subcontractor relations, cost controls, management during construction, close out, post-construction requirements, and sustainable residential construction.
COSC	442	1	Commercial Capstone	A senior capstone course for students preparing to enter the commercial construction sector; project management of commercial construction projects, including: aspects of design, bidding/estimating. Presentation, value engineering, contracts/negotiation, subcontractor relations, cost controls, management during construction, close out, and post-construction requirements. Sustainability of project covered.
COSC	489	1	Special Topics (Tiny House)	Design Development, pre-construction, construction, delivery, & display of a tiny-house. Students will work together in interdisciplinary teams to finalize design and construction documents required for a tiny-house, and will then complete construction on the tiny-house.
CVEN	307	2	Transportation Engineering	Fundamental principles and methods in planning, design, and operation of transportation systems; driver and vehicle performance capabilities; highway geometric and pavement design principles; traffic analysis and transportation planning.
CVEN	339	1	Water Resources Engineering	Quantitative hydrology, precipitation, hydrograph analysis, reservoir and stream routing; groundwater, Darcy equation, well equation, well design; probability concepts in design; water law; dams; reservoirs; spillways; open channel and pipe network hydraulics; pumps; urban stormwater drainage; flood damage mitigation.
CVEN	349	1	Civil Engineering Project Management	Quantitative hydrology, precipitation, hydrograph analysis, reservoir and stream routing; groundwater, Darcy equation, well equation, well design; probability concepts in design; water law; dams; reservoirs; spillways; open channel and pipe network hydraulics; pumps; urban stormwater drainage; flood damage mitigation.
CVEN	424	2	Civil Engineering Professional Practice	Professional practice issues; current civil engineering issues that impact design, construction, and operation of civil engineering facilities; developing engineering solutions that better serve society; business and public policy concerns; life-long learning; problem solving; professional licensure.
CVEN	462	1	Groundwater Hydrogeology	Groundwater in the hydrologic cycle; aquifer properties; well hydraulics, testing, and design; groundwater quality; and groundwater management and sustainability.
ECEN	464	1	Optical Engineering	Ray optics; wave optics; propagation, reflection, refraction and diffraction of light; passive optical components, polarization, optical modulators, interferometers and lasers. Apply fundamental optical principles, for example to solar energy All the topics listed in the catalog will be discussed; however, we will also include optics for renewable energy
ECON	202	9	Principles of Economics	Elementary principles of economics; the economic problem and the price system; theory of demand, theory of production and the firm, theory of supply; the interaction of demand and supply.
ECON	412	1	Public Finance	Topics include: 1) Principles of policy analysis, 2) public goods, 3) Externalities, 4) Public Choice 5) Poverty, Inequality, and Redistribution 6) Analysis of Welfare Programs 7) Social Security 8) Health Care Issues 9) Principles of Tax Analysis 10) Deficit Finance 11) Federal Income Tax 12) Federal Tax Reform
ECON	414	1	Health Economics	This course analyzes the economics of health care in the United States, with particular attention to the role of third party payers, including the government. It examines the demand for health care and the structure and consequences of public and private health insurance; the supply of health care, including professional training and licensing. It also assesses the role of competition in health care markets, including competition among hospitals, insurance plans, physicians, and pharmaceutical manufacturers, among others. Finally, we assess the role of competition and regulation in medical innovation.

ECON	418	1	Economics of Labor	Labor markets are important: compensation of employees comprises about 65% to 70% of national income, and most everyone participates in the labor market at some point, often for 40 or more years. We begin with a simple economic model of labor supply and labor demand, and develop its logical implications. We then consider richer details that help account for the many labor market phenomena apparent from inspection of the data. The course will introduce you to many sources of labor market data and to current research on a variety of topics in labor economics.
ECON	426	1	Economics of Regulation and Antitrust	In this course you will learn about contemporary issues in antitrust and economic regulation. We will use theoretical models and tools from industrial organization to assess the relationship between market structure, economic efficiency, and social welfare. In particular, we will evaluate the efficiency gains and losses associated with specific business practices including cartelization, horizontal merger, and vertical integration. By reading landmark judicial opinions and economic case studies that analyze these opinions, we will look at how antitrust law has evolved over time and consider its effectiveness. Finally, this course will also address other forms of government regulation designed to correct market failures and promote efficiency.
ECON	433	1	Energy Markets and Policy	Economics of energy markets and energy regulation with emphasis on implications for optimal energy policy; sectors include gasoline, oil, electricity, natural gas, renewables, nuclear; economic theory integrated with empirical applications from American and international experience; new energy markets, energy trading, and interaction with environmental policy.
EDCI	353	6	Early Childhood through Adolescent Education	Early childhood approaches and instructional materials appropriate for early childhood school programs, kindergarten and primary grades. Articulate an understanding of cultural backgrounds, linguistic differences and personal biases within a variety of cultural perspectives. (CDSI2) Students will demonstrate an understanding of the diverse methods used to learn about how children learn and how to design appropriate instruction accordingly. Students will demonstrate an understanding of the relationship between culture and development and identify alternative frameworks for understanding childhood. Students will demonstrate familiarity with key issues surrounding the study of childhood such as diverse family structures and popular culture, and critically analyze how these impact instructional choices.
EDCI	354	5	Early Childhood and Adolescent Curriculum and Lesson Design	This course addresses curriculum development, planning and delivery strategies; examines curriculum from a variety of cultural and philosophical perspectives; explores a range of instructional strategies for enhancing, guiding and stimulating learning, and creating effective learning environments. Module: Diversity, Differentiation and Modifications A Visit to a Differentiated Classroom
EHRD	203	3	Foundations of Human Resource Development	Discuss diversity within the context of HRD – its relation to organizational culture, labor-market changes and discrimination; adapting to demographic changes; cross-cultural education and training programs; HRD programs for culturally diverse employees; mentoring for promoting diversity; sexual and racial harassment training.
EHRD	210	3	Legal and Ethical Environment of Human Resource Development	1. Develop an objective and intellectual approach to employment related issues 2. Understand the legal hierarchies and their impact on the employment setting 3. Understand the basic principles of an employment relationship 4. Develop an acute awareness for workplace discriminatory treatment and prevention 5. Understand the basic principles of the hiring process 6. Develop skills and knowledge for creating inclusive workplaces 7. Understand the basic principles of workplace compensation, benefits, and work conditions 8. Understand the basic principles of ending an employment relationship 9. Understand the ethical complexity inherent in leading complex and diverse organizations
EHRD	413	1	Conflict Management and Dialogue	The emphasis in this course is the appreciation of conflict management from a social justice perspective. Outcomes: Explain the role of diversity in conflict and conflict management. Analyze issues and problems from a diverse and global perspective.
EHRD	481	2	Capstone Seminar in Human Resource Development and Technology Management	Capstone seminar on significant issues in industry; transition from an academic environment to professional business environment; preparation of an individual professional portfolio; steps in searching and securing an internship position.
ENDS	101	5	Design Process	Fundamental design processes, issues and theories relevant to design resolution and the creation of new ideas; creative thought processes from the formation of ideas through incubation to final product and future impact on the physical environment and society.
ENGL	219	1	Literature and the other Arts	The course explores the aesthetic intersections of literature and the visual arts through the idea of bricolage (French for “tinkering”): making creative and resourceful use of whatever materials are at hand. Bricolage, in short, is the “art” of recycling. In an age concerned with sustainability—of the natural environment, of green architecture, of planned obsolescence—art offers creative models of recycling, reuse, and adaptation. From the avante-garde experiments of Surrealism in the early 20th century to contemporary Trash Art, artists have revived what is considered garbage or waste into raw materials for creative expression. Art, then, is aesthetic and political. Our particular focus will be on the “aesthetics of the everyday”: art as recycling (i.e., collage, assemblage, found art, and fiction) and adaptation
ENGL	228	2	American Literature: Civil War to the Present	Given its tremendous racial and ethnic diversity, and the political twists and turns of its rise from British colony to superpower, America is an endlessly complex and unpredictable nation. The way this complexity and unpredictability resolved itself during and after the Civil War is either the subject or the precondition of most of the works of literature we will read in this course. The pre- and post-Civil War social significance of race, class, and/or gender, for instance, play powerful roles in such texts on our reading list as Crazy Brave, Sula, The Bell Jar, The Big Sleep, and Death of a Salesman.
ENGL	338	2	American Ethnic Literature	Students in this course will read and discuss a wide variety of literary works by American writers of different racial and ethnic origins. Major themes explored include double consciousness, cultural hybridity, critical whiteness, passing, immigration and assimilation, exclusion and marginalization, geographical and psychological displacement, and environmental injustice.
ENGL	362	3	US Latino/a Literature	This course will survey some of the significant literary texts produced by Mexican Americans in the twentieth century. Through the close reading of fiction, poetry, essays, and historical documents, we will become familiar with the history of Mexican American Literature, and we will develop an understanding of the experiences and aesthetic expression of Chicano/as in the U.S. Some of the historical sites and themes around which we will concentrate our study include the U.S.-Mexico War of 1848, the Chicano/a Movement, land dispossession and immigration, as well as issues of race, gender, sexuality and class. We will explore how Mexican Americans’ particular social location has influenced their literary production, and how Chicano/as, in turn, have contributed to American literature.
ENTO	320	2	Honey Bee Biology	Welcome to Texas A&M’s introductory course on honey bee biology, evolution, management and preservation. This course is designed for both science and non-science major students, with honey bees used as a model organism to learn about the processes of science, biology, entomology, sociobiology, and the evolution of communication.

ENTO	423	1	Medical Entomology	Biology, disease relationships and control of insects and other arthropods parasitic on or in humans are described and discussed in lecture sessions, within the context of this information being an important aspect of the fields of clinical and preventive medicine. Survey, collection, taxonomy of medically important arthropods and molecular biology applications are emphasized in the laboratory sessions. The course objectives are to familiarize students with the arthropod groups involved in the causation and/or transmission of diseases affecting human and sometimes other animal health, with key morphological characteristics, habits and habitat needs of the various life stages of each group and/or species of arthropod being emphasized. The laboratory class will focus on the identification of immature and adult specimens of arthropod species of medical importance to be covered in the course. Students will also be introduced to the use of molecular biology applications to medical entomology
ENTO	425	1	Disease Ecology	Ecological interactions that influence the distribution and abundance of pathogens, vectors, and hosts ultimately determine the spread of disease; impacts of urbanization, climate change, and other human influenced environmental changes on disease dynamics; integration of disease ecology into pathogen and vector monitoring and comprehensive strategies to reduce disease occurrence.
ENTO	485	1	Study Abroad Program in Dominica	Learn about culture, geography, history, flora, fauna, and ecology of the Caribbean region and of the island of Dominica in particular.
EPFB	301	1	Field Based Experiences Seminar	Communication effectively with a range of audiences, including peers, parents of students and the students in the field based setting, and faculty members in both oral and written form. Practice personal and social responsibility by demonstrating appropriate professional behaviors at the proficient level in both classroom and field-based experiences, and utilize ethical practices in decision-making. Demonstrate social, cultural, and global competence by differentiating instruction to reach students with diverse backgrounds and instructional needs in the classroom setting.
EPFB	401	1	Field Based Experiences Seminar	Communication effectively with a range of audiences, including peers, parents of students and the students in the field based setting, and faculty members in both oral and written form. Practice personal and social responsibility by demonstrating appropriate professional behaviors at the proficient level in both classroom and field-based experiences, and utilize ethical practices in decision-making. Demonstrate social, cultural, and global competence by differentiating instruction to reach students with diverse backgrounds and instructional needs in the classroom setting.
EPSY	320	4	Child Development for Educators	This course is designed to provide an overview of the research and theory on child development. Students examine various aspects of development through the lens of cultural and ethnic diversity. They will compare and contrast how children from various cultures proceed through the development experience.
ESSM	102	1	Introduction to Natural Resources and Ecosystem Management	Introduction to natural resources and ecosystem system approach to wildland management; survey of the field of natural resources and related industries.
ESSM	201	1	Exploring Ecosystem Science & Management	Illustrate critical thinking and demonstrate problem solving skills • Demonstrate an ability to acquire and interpret information and present conclusions orally and in writing. • Demonstrate the ability to work collaboratively in teams and exercise leadership skills on projects • Demonstrate environmental stewardship and professional and ethical behavior • Recognize the need for lifelong learning and exhibit the skills necessary to acquire, organize, and reorganize new knowledge • Demonstrate civic responsibility and global citizenship
ESSM	203	1	Forest Trees of North America	Taxonomy, phylogeny, and identification of the important forest trees of North America and their ecological and social uses and benefits.
ESSM	314	2	Rangeland Management around the World: Principles and Practices	Rangeland management around the world will present an overview of rangelands; the history of their management, the many different kinds of rangelands (climates, soils, plants, animals, and products), and the management strategies and practices used to restore degraded rangelands and maintain healthy rangelands to produce the goods and services desired by society.
ESSM	316	1	Range Ecology	The purpose of this course is to provide students with an understanding of the interrelationships between the abiotic and biotic components of rangeland communities and ecosystems. Specific topics include: the individual, populations, communities, ecosystems, landscapes, and global patterns. The course is divided into two sections, first – autecology and second- synecology.
ESSM	415	1	Range Analysis and Management Planning	Basic concepts and theories of range management systems. Resource inventory, analysis and management planning.
ESSM	444	1	Remote Sensing of the Environment	The main objective of this course is to introduce students to the principles and techniques necessary for applying remote sensing to diverse issues in natural resources. The course emphasizes a hands-on learning environment with theoretical and conceptual foundations in both aerial and satellite remote sensing. Primary focus will be placed on digital image interpretation, analysis, and processing for a broad range of applications. The course, through the class project, discussions, student presentations, and lab exercises, is based on inquiry-type activities, such as discovery, case studies, modelbuilding, design, research, creating, and environmental problem-solving with remote sensing techniques
FILM	394	1	Studies in Genre: Social Problem Films	This course links the history of American society and culture since 1877 with the study of American films which address social issues and trends. Students will examine primary sources on subjects ranging from the social and political thought of major intellectual figures to the more popular mind-set projected by motion pictures. Assigned secondary sources provide scholarly interpretations of the changing social-cultural landscape (including film) since the late 19 century.
FILM	489	2	Gender and the Horror Genre Seminar	Have you ever noticed how certain genres are associated with certain sexes or with people of certain sexual orientations? Why would it be that straight men are associated with and action movies, gay men with musicals, straight women with melodrama or romances, lesbians—perhaps more obscurely—with gothic romance? The reasons may seem simple... at first; however, the more one looks at them, the more complex (and contestable) these associations can be. This seminar will allow us to explore and analyze the ways in which a single literary and/or film genre resonates with gendered perspectives and sexual subjectivity. We will focus on the horror film as it has been used to allegorize struggles related to male and female subjectivity and hetero and homosexual desire, asking ourselves if horror allows people, at a pop-cultural level, to address the deepest and most profound fears and fantasies associated with their gender concerns and sexual identities
FSTC	300	1	Religious and Ethnic Foods	Understanding religious and ethnic foods with application to product development, production, and nutritional practices; emphasis on different cultures, food rules and priorities with attention given to different religious and ethnic groups within the US and around the world.



GEOG	305	1	Geography of Texas	Geography 305 is an introductory course in regional geography that examines the cultural and physical geography of Texas. Geography as a discipline inquires about the fundamental relationships between people, places, and environments. The purpose of this course is to explore the diverse geographies of Texas as well as introduce some important geographical concepts such as region and landscape. As you are aware, Texas has a strong regional personality—maybe more identifiable than any other American region—therefore it is important to discuss how "Texas" is represented to and interpreted by the world at large. The successful outcome of this course, which is my goal, is to (1) facilitate your understanding of the various cultural and ecological contexts found in Texas, (2) increase your knowledge and proficiency in Texan place-names and regions including their relative locations, (3) develop a dialogue of Texas in regards to landscape & representation, and (4) convey the importance of intellectual pursuits that construct geographical places, regions, and ideas. Learning Objectives: (1) Students will be able to identify the significant geographic features and patterns of Texas, as indicated on a variety of contemporary and historic maps. (2) Students will be able to explain the causes and consequences of these features and patterns in terms of cultural, economic, political, and physical processes. (3) Students will be able to interpret the cultural significance of selected landscapes and landscape representations. (4) Students will be able to delineate the culture regions of Texas and describe their origin and character.
GEOG	324	1	Global Climatic Regions	Climatological processes and their consequences for spatial distributions of climates; survey of earth's climates; relationships among climate, landforms, vegetation, soils and humans
GEOG	434	1	Hydrology and the Environment	Examination of hydrologic processes in relation to climate, soils, vegetation, land use practices, and human impacts; natural scientific perspectives emphasized; field and laboratory included.
GEOL	101	4	Principles of Geology	This course explores the nature of the Earth and the geologic processes that shape the Earth through time.
GEOL	104	1	Physical Geology	Laboratory exercise-based introduction to the physical and chemical nature of the Earth and dynamic process that shape it; rock and mineral types; topographic and geologic maps; complements GEOL 101 but may be taken independently.
GEOL	410	1	Hydrogeology	Geologic conditions determining the distribution and movement of ground water and their effect on the hydrologic properties of aquifers.
GEOS	101	6	Introduction to Geosciences	Introduction to the geosciences; geography, geology, geophysics, atmospheric sciences and oceanography; areas and opportunities in the various geoscience fields.
GEOS	470	1	Data Methods in Geosciences	The student will be taken from conceptualization of a scientific problem, data collection and processing, to appropriate analysis techniques, and finally to data archiving and management. The approach is multi-disciplinary with emphasis on real-world applications from environmental, atmospheric, and oceanographic sciences.
HEFB	222	2	Teaching in a Modern Society	In this course you and your classmates will develop an understanding of teaching and learning in multiple settings, including school and community venues. Using reflection (a calm lengthy intent consideration) you will explore the development, structure, management, and finance of modern schools; philosophical, historical, ethical, and moral dimensions of teaching; the role of schooling in a democratic society; contextual issues in schools such as race, class, gender, sexual orientation, ethnicity, language, religion, learning styles, physical abilities and culture; and teaching as a profession.
HIST	300	1	African American History	The purpose of this course is to introduce students to the history of African Americans before 1877. This course will examine and place African American history within the context of important social, economic and political issues.
HIST	344	1	History of Africa to 1800	Origins of humankind in Africa; development and spread of pastoralism, agriculture and iron-working; formation of states and empires; impact of Christianity and Islam; rise of international trade in gold, ivory and slaves; African diaspora.
HIST	347	1	Rise of Islam	Very broadly, this course is guided by two primary aims: First, to introduce students with little or no prior knowledge of Islam, history of Islam and the Middle East to the main religious, political, social and cultural contours of the tradition, and its diverse participants. Second, this course aims to guide students in thinking, speaking and writing analytically about Islam and Islamic history. One of our primary goals is to give students conceptual tools, historical information and analytical skills necessary to contextualize Islam in today's world and make sure that they respond to the events and information they encounter and observe in a critical and knowledgeable manner.
HIST	461	1	History of American Women	Cultural, political, legal and religious factors that helped shape the role and character of women in American society from colonial times to the present; historical role of women in the development of the nation.
HIST	476	1	Sex & Sexuality in History	This course investigates sex and sexuality in history by focusing on the early-modern and modern eras in the Anglo-American Atlantic world. We will examine changing ideas about sex and sexuality over time, including their interaction with concepts of gender, race, class, religion, science, technology, medicine, politics, and popular culture. The course further will explore the historical and cultural processes that have affected the emergence of modern concerns about sex and sexuality. We will pay particular attention to the historically contingent nature of understandings of sex and sexuality and to explaining why and how these understandings have changed.
HLTH	214	1	Health and Physical Activity for Children	Coordinated school health and physical activity programs appropriate for elementary aged children; focus on the content of the curriculum and the philosophical underpinnings of programming related to health and physical activity.
HLTH	342	4	Human Sexuality	The course will focus on three primary goals: enhancing knowledge, increasing comfort, and facilitating communication about sex. The success of this course will be achieved in the students' ability to translate what one knows intellectually into the realm of personal relationships. Students should learn to choose what is responsible and right for them. A healthy respect should be gained for the differences among individuals and their perspectives.
HLTH	403	3	Consumer Health	This course addresses a comprehensive overview of issues associated with being a wise consumer of health products and services. More specifically, this course provides consumers with the knowledge and skills necessary to make informed health decisions in contemporary society
HLTH	410	3	Health Programs in the Workplace	Careful examination of strategies to design, implement and evaluate exercise and health programs in worksites; including health risk assessment, marketing protocol, needs assessment, corporate culture issues, policy development, and cost-benefit analysis.
HLTH	440	2	Contemporary Issues for Community Health	This is a preparatory course for advanced students in the Community Health Internship program. This is considered one of the "writing courses" for the division of Health.
HORT	281	1	Horticulture as a Profession	Modules: Environmental Horticulture: Landscape and urban ecosystems; nursery/floral crop production; floral design/events; careers in production and research. The People-Plant Interface: Public gardening; horticultural therapy; gardening education; foods for health; local foods movement; careers in research and education. Horticulture: Changing with the Times: World population growth, food security, land issues and environmental factors affecting the future of horticulture.

HORT	301	2	Garden Science	Identification, propagation, soil management, fertilization, growth control and protection of common garden plants: indoor ornamentals, landscape ornamentals, fruits and vegetables; special topics include home landscaping, container gardens, bonsai, herbs and medicinal plants and hobby greenhouse management. The effects of organic and non-organic practices on the garden ecosystem.
HORT	315	1	Issues in Horticulture	The course describes and analyzes factors that impinge on modern horticultural systems, including technological, environmental, economic, societal and ethical issues. While a brief overview of current practices and technical background information is presented, the focus is on critical issues that are affecting managerial decision-making in horticultural operations and how graduates can prepare themselves to function in a continuously changing business environment.
HORT	325	1	Vegetable Crop Production	Origin, nutritive value, economic importance, botany and cultural practices of the major vegetable crops. Lab activities include organic and non-organic production of major vegetable crops.
HORT	428	1	Greenhouse Operation and Management	Principles of greenhouse operation and management for production of horticultural crops; construction and operation of greenhouse structures and systems; regulating and controlling the environment and applying cultural practices as they affect plant physiological processes and influence plant growth and development; management of a greenhouse business.
HORT	489	2	Processing Coffee & Other High-Value Food Crops	Describe the principles of coffee processing and other high-value food crops • Describe how plant economic value is affected by cultivation, processing, and marketing decisions • Evaluate environmental constraints to plant growth and production as they relate to crop processing • Explain the main issues related to the global supply chains of high-value food crops • Critically evaluate the role of globalization in sustainable horticultural systems and sustainable business practices
IDIS	444	2	Ethics and Leadership in Distribution	Managing change in a dynamic environment in industrial distribution including key success factors involved in firm profitability, issues of a strategic nature; negotiation processes; ethical behavior in achieving economic and social performance.
INST	210	2	Understanding Special Populations	referral, assessment and categorization of special populations including physical, cognitive and affective characteristics; cultural, ethnic, economic and linguistic differences; giftedness; special education and compensatory programs; awareness of legislative history that results in rights for special populations.
INTS	205	2	Issues in International Studies	This course provides students with a diverse exposure to the issues and questions discussed in the broad field of International Studies. It will give students exposure to noted international academics and professionals. Students will be expected to attend discussion sessions, as well as lectures and events within the course of the semester and provide a written reaction paper to each.
INTS	321	1	Political Islam & Jihad	This course is designed to understand the patterns and interaction between Islamic movements and politics in various Middle Eastern countries to develop an understanding of the role of Islam as a tool for political and social mobilisation. It will examine the politicization of Islam and its impact on movements and countries such as Turkey, Iran, Egypt, Sudan, Algeria, Tunisia and Pakistan. The main topics consist of the evolution of Islamist philosophy, jihad and movements from the late nineteenth century until the present day. It focuses on ideas as well as intellectual, religious and political leaders. The key areas covered are: the fundamentals of Sunni and Shi'a thought; modernist Islam - al-Afghani, Mohamed Abduh and Rashid Rida; Islamic Puritanism - the Wahhabis, the Sanussiya, and the Mahdiyya; Models of Islamic State - Iran, Pakistan; Islamist Movements - Muslim Brotherhood, Hizb'allah, Hamas, the Islamic Salvation Front, transnational Islam and international jihadism – ISIS, al-Qaeda,
INTS	401	1	Urbanism and Modernism	Interdisciplinary examination of the transition from rural traditions to urban alienation, covering modernist currents in culture, history, politics, and society; exploration of the problems of urbanism as represented by the most renowned twentieth-century artists; study of such topics as modernist urban design, urban alienation, modernist cities, dystopia, and urbanism.
INTS	410	1	Gender & the Global Modern: International Perspectives	Relationship of the concepts of gender and modernity in the 20th and the 21st centuries from an international perspective; global theories of gender and sex across genres. <ul style="list-style-type: none"> <li>• Articulate a basic understanding of the sex/gender distinction and identify global examples.</li> <li>• Recognize the role of cultural sensitivity and difference in assessing the impact of gender expectations for men and women in different cultures outside the U.S.</li> <li>• Describe some of the challenges faced by women in different parts of the world.</li> <li>• Formulate clear, expository written statements summarizing issues.</li> </ul>
INTS	481	4	Senior Seminar in International Studies	The purpose of this course is to equip the students with the theoretical and empirical knowledge necessary to understand the social movements, popular uprisings in the post-modern, post globalization world. In this course, we will analyze essential factors that led to the current public revolts and try to define whether current social movements are revolution or popular unrest.
ISEN	210	1	Fundamentals of Industrial Engineering Design	Engineering design for product development, problem definition and need identification, information gathering and concept generation, decision making and concept selection; industrial engineering concepts including design for manufacturing, assembly, sustainability and environment; economic decision making and cost evaluation; risk, reliability and safety; quality; robust design and optimization.
KINE	285	3	Learning Community	The purpose of this course is to increase student academic achievement/retention and direct professional development/growth through specific academic skills development, involvement in group study sessions, extracurricular activities and group support. This includes enhancing diversity awareness through attendance of International Appreciation week activities.
LAND	101	2	Introduction to Landscape Architecture Practice	Landscape architecture combines art and science. It is the profession that designs, plans and manages our land. Today, landscape architects deal with increasingly complex relationships between the built and natural environments. Landscape architects plan and design traditional places such as parks, residential developments, campuses, gardens, cemeteries, commercial centers, resorts, transportation facilities, corporate and institutional centers and waterfront developments. They also design and plan the restoration of natural places disturbed by humans such as wetlands, stream corridors, mined areas and forested land. Modules: Green Roofs, Stormwater Management, Cultural Landscapes, Healthy Communities & Healthy Cities
LAND	240	2	History of Landscape Architecture 1	The course focuses on how the ideas, values, beliefs, and philosophical positions of a particular set of historical people are reflected in the visible landscape. It takes the assumption that as humans interact with nature they write their unwitting autobiography. This tastes, styles, behaviors, and philosophies of particular persons within a given time period, within a given region are then directly reflected through the design of the built and natural environments.
LMAS	201	1	Introduction to Latino/Mexican American Studies	It is an introductory survey of Latinos/Mexican American Studies from an interdisciplinary perspective. Students will learn basic knowledge of multiple Latina/o experiences in the U.S. from a humanities and social science perspective. This course emphasizes the application of critical thinking skills to the study of Latinos and Mexican Americans
MASC	351	6	Problem Solving in Mathematics	Problem Solving Strategies in math and science; evaluate conjectures and arguments; write and collaborate on problem solutions; pose problems and conjectures; construct knowledge from data; develop relationships from empirical evidence; connect mathematics concepts; readings, discussions, and analyses will model and illustrate mathematics problem solving and proofs. One of the objectives is to use knowledge relating to issues of equity, affect and diversity to excel in the Teaching for Equity Challenges associated with the rich, open-ended mathematics problems.

MASC	371	3	Inquiries in Life and Earth Sciences	Integration and connections among topics in life and earth sciences – diversity, natural selection, ecosystem development, earth’s features, and weather systems; inquiry emphasizing experimental design, data analysis, and collection; use of models in the life and earth sciences.
MEEN	402	2	Intermediate Design	Product detail design and development process including case studies; project management, marketing considerations, manufacturing, detailed design specifications; failure modes, application of codes and standards, selection of design margins; product (component) development guidelines; intellectual property, product liability, sustainability, and ethical responsibility.
MEFB	452	4	Planning & Development for Middle Grade Curriculum	To prepare all middle-level teacher candidates to facilitate diverse approaches to instructional strategies that support all areas of development (physical, cognitive, intuitive, social, emotional, moral) and represents a variety of global and multicultural perspectives.
MGMT	209	2	Business Government and Society	Impact of the external environment-legal, political, economic and international-on business behavior; market and non-market solutions to contemporary public policies confronting business persons examined including antitrust law, employment and discrimination law, product safety regulation, consumer, protection and ethics.
MGMT	211	4	Legal and Social Environment of Business	Role of government in business and society; analysis of social policy and legal institutions; ethical problems in management decisions; administrative law; antitrust law; employment and discrimination law; regulation of business transactions; protection of intellectual property rights; regulation of information in markets; including securities and product safety; international business law.
MGMT	432	1	Managing the Nonprofit Organization	The course focuses on the broad trends shaping the nonprofit sector. Nonprofits are the primary drivers of social change and play a key role in society and in the economy providing a wide array of goods and services. The course is designed to give students an overview of the complex management challenges that confront nonprofits today as they try to balance their mission and values against the requirements of effective management with limited resources.
MODL	222	2	World Literature	This course explores literary forms from diverse periods and genres including, graphic novels about growing up in Iran during the Iranian revolution, classic Japanese tales from the 11th century, German trickster narratives from the Middle Ages, early 20th century Yiddish literature and cinema, modern Japanese manga, popular song of South Africa in the Apartheid years, Québécois drama and poetry during the Quiet Revolution, contemporary film from the Caribbean, and present-day tango in Argentina.
MUSC	201	3	Music and the Human Experience	MUSC 201 is designed to introduce you to various musical styles that have been part of the human experience throughout history and across cultures. We will survey the development of Western (Euro-American) folk, popular, and art music and draw connections to the music of other cultures to consider how music plays a vital role in the human experience. Our approach is two-fold: 1) we will actively listen to music and learn to describe and analyze its sound, and 2) explore how music affects, reflects, and suits particular cultural contexts and practices. Our studies will allow us to reflect upon questions such as: Why is music an integral part of every human culture? What is it used for and how does it enhance our human experience? What effects does music have on people and why?
MUSC	301	2	Performance in World Cultures	This course examines a variety of global performance traditions. We begin with an understanding that both aesthetic and quotidian performances reveal much about the individuals, groups, and cultures that create and experience them. This course will challenge students to discard their biases in favor of openmindedness and differing perspectives. We will identify the customs and particularities of several performance traditions and strive to comprehend them from a culturally relative position, which will thus enrich our own worldviews. Includes some critical discussions on race and gender.
MUSC	327	1	Popular Music in the African Diaspora	The course material, which spans continents, entails not just a sense of geographic diversity but also an understanding of diverse political, social and cultural circumstances that have shaped the music. It highlights not only the international/global diversity of the music and people/cultures that make the music but also connections among these cultures and with cultures outside them. The important results that I expect for students include intercultural competence, a capacity for local and global engagement, and the sense of social responsibility that such competence and engagement engenders.
NUTR	202	3	Fundamentals of Human Nutrition	This course provides an overview of the fundamentals of human nutrition with the goal of enabling students to think critically while exploring the role of food and nutrition in health, disease and the environment.
NUTR	300	1	Religious and Ethnic Foods	Understanding religious and ethnic foods with application to product development, production, and nutritional practices; emphasis on different food rules and priorities with attention given to different religious and ethnic groups within the US and around the world.
OCNG	401	2	Interdisciplinary Oceanography	Quantitative survey of interdisciplinary relationships between biological, chemical, geological & geophysical, and physical aspects of the ocean.
OCNG	410	1	Physical Oceanography	Oceanography is an interdisciplinary science that deals with the geological, biological, chemical, and physical properties of the ocean. This course provides an introduction to physical oceanography, primarily for students majoring in ocean engineering, environmental geosciences, and meteorology, but also for students majoring in other physical and natural science disciplines. The main objective of this course is to gain an overview and a basic understanding of the physical processes governing the ocean, covering a wide spectrum, from coastal currents to the global ocean circulation, from atmosphere - ocean interactions to deep-ocean hydrographic properties, from polar to tropical oceanic features, from ship-borne in-situ measurements to satellite remote sensing products, from basic theories to their application in mathematical-numerical models. It should be noted that physical processes of the ocean are a primary driver of the global climate system, and thus key to understanding climate change.
PHIL	352	1	Studies in Africana Philosophy	The aim of this course is familiarize the student with the ideas of African American thinkers that have largely inspired and in many ways define contemporary post-colonial perspectives throughout the academy. By the end of this course, it is expected that the student will be able to: (1) Identify the intellectual traditions that Black thinkers established from the 1800’s to present, (2) Identify the contours and nuances of African American thought’s use of European philosophy and the limitations Black thinkers have exposed in traditional European philosophical traditions, (3) Understand the debates Black thinkers were having among themselves, and how these debates influenced the directions and aims of their scholarship.
PHIL	375	1	Philosophy of Visual Media	This course will allow students to consider and develop philosophical approaches to the status, constitution, and impact visual media has on social, cultural, and political life. This course will examine topics such as: what constitutes art (as opposed to kitsch), the relationship between different forms of visual media (painting, literature, music, film), and the potential for popular media (such as graphic novels, film, and video games) to have social, intellectual, and political impact in addition to their entertainment value. It will ask students to consider the role visual media has in their own culture, and evaluate both the positive and negative impacts it can have on both the individual and society as a whole.
PHIL	480	1	Medical Ethics	This is an upper level course in medical ethics in which we will explore ethical issues that arise in medicine, such as truth-telling, confidentiality, paternalism, lifespan extending technology, abortion, euthanasia, and social justice in health care. Special attention will be given in this course to the ways in which marginalized groups are affected by various policies and practices in health care.

PHLT	301	1	Orientation to Public Health	This 1-credit course is designed mainly to help students to become familiar with public health, including aspects such as different disciplines within the profession and local, national and international agencies that have interest in public health, and public health code of ethics. The course consists mainly of attending seminars and lectures specific to public health themes. Module: Environmental Health
PLPA	334	1	Turfgrass Pathology	Students will be able to recognize common turfgrass disease symptoms and signs • Students will be able to diagnose turfgrass problems with the ability to distinguish between biotic diseases and abiotic disorders • Students will be able to know the life cycles of the common turfgrass pathogens and how this knowledge translates to the formulation of effective management practices • Students will be able to appreciate pathogen morphology and entity in multiplication and dispersal • Students will be able to familiarize turfgrass species and their growth habits, and how this relates to disease development • Students will be able to understand the interactions among pathogens, turfgrass growth, and environmental conditions • Students will be able to know IPM strategies for turfgrass including fungicides, cultural practices, host genetics, and biological control agents.
POLS	231	2	Introduction to World Politics	The goal of this course is to introduce students of world politics to key theories, concepts, and historical and contemporary events in international relations. After this course students should gain a better understanding of world politics from a variety of theoretical and conceptual perspectives. In this course we will address a variety of topics such as international conflict and cooperation, and international economic interactions, the role of international organizations, adn law, economic development, democratization and interdependence.
POLS	353	1	Constitutional Rights and Liberties	Legal issues, controversies and significant developments in constitutional rights and liberties, and the impact of these developments upon American politics, culture and social institutions.
PSYC	206	3	Black Psychology	Most studies in mainstream psychology are based on a limited range of the world's people: typically young, middle-class, North American college students of European descent. We will examine psychological phenomena and issues that emerge in the context of African-descent peoples living in the African Diaspora. Keep in mind, this is not a "how-to" course (for fun, see "How to Be Black" by Baratunde Thurston). Rather, we will examine and reflect on a variety of psychological issues through "nonWestern" lenses. The purpose of this course is to critically examine psychological experience, theories, and methods from perspectives grounded in the "Black experience."
PSYC	210	2	Human Sexuality	The purpose of this class is to examine theories and research concerning human sexuality. We will examine topics underneath this umbrella term including (but not limited to) sexual behavior, reproduction, gender roles, sexual orientations, sexual relationships, sexual development and sexual violence. This course will also consider the unique sexual experiences of people from a variety of cultures, ethnicities, sexual orientations, social classes, ages, and physical abilities.
PSYC	330	2	Personality Psychology	This course is intended to provide an overview of major theoretical perspectives as well as contemporary research techniques and findings in the field of personality psychology.
PSYC	489	1	Site & Identity in the African Diaspora	This seminar will explore psychological perspectives on the inherently social, dynamic, multifaceted, and constructed nature of self and identity among African-descent peoples living in the United States. We will primarily explore the psychological aspects of self and identity through readings, writing, discussions, and class activities that explore the lifelong development of a racialized self concept, how collective narratives of blackness are formed and internalized over time, and how living in multicultural contexts can promote identity safety and/or threat
RELS	480	1	Religious Communication	Analyze diverse approaches to the study of religious communication to develop a more personal and social responsibility needed for living in a diverse world. • Apply critical first-person analysis as well as third-person analysis to develop intellectual and practical skills essential for all learning. • Evaluate different disciplinary approaches in order to develop the mental flexibility required for reflection and critical thinking.
RPTS	201	2	Foundations of Recreation, Park and Tourism Sciences	This course will provide students with an understanding of the development of theoretical foundations of the recreation and leisure field. We will also examine the professional philosophy, present status, prospects for the future and the role of parks and recreation in modern society.
RPTS	301	2	Leisure and Outdoor Recreation in American Culture	This course is an introduction to the fundamental concepts of leisure and outdoor recreation and how they influence us as individuals and as a society. The course reviews the influence of leisure throughout life. More specifically the use of leisure to experience the outdoors (nature) and its influence on the human condition is examined. The course also examines the role that nature and the outdoors have played in shaping unique aspects of American culture.
RPTS	320	4	Professional Event Coordination	An introduction to the principles and application associated with the effective management of festivals and special events, including event planning, marketing/promotion, operation logistics, and sponsorship and fund raising. The class will include lectures by invited speakers, required participation in one or more planned events (normally conducted on weekends), and visits to regional festivals and/or events. Module: Sustainable Success
RPTS	423	2	Tourism Management	Management issues and tools related to the travel and tourism industry; history, planning, operations, leading, directing and controlling tourism businesses; complexity and scope of tourism systems; issues related to ethics and sustainability; managing tourism in different environments; roles of technology and information technology; future of tourism.
RPTS	476	1	Leadership for Outdoor Recreation	Course will cover leadership principles related to outdoor recreation; classroom instruction and experiential learning; skills training through field trips; risk management planning, environmental education, group facilitation, and trip planning. Course will cover outdoor recreation leadership principles for youth and adults. Module: Leave No Trace
RPTS	478	2	Youth Development Practice	Demonstrate knowledge of youth development programming based on specific local community needs. ☑ Demonstrate critical self-reflection of one's own professional development as a leader in youth development. ☑ Demonstrate knowledge of the demographics, socio-cultural dynamics and assets of a specific local community. ☑ Demonstrate critical self-reflection of one's own assumptions and stereotypes. ☑ Comprehend social and cultural group identities and the relative privilege or marginalization of each. ☑ Demonstrate intercultural communication skills.
SCEN	201	1	SCEN 201	Study of adolescents in diverse school and community settings; issues in physical, mental, social and emotional development; issues related to racism, sexism, and cultural diversity; development, presentation, and defense of portfolio required.
SCSC	302	3	Recreational Turf	Topics will include a general overview of the turf industry; adaptation of turfgrasses throughout the U. S.; turfgrass species, varieties, and their uses; seedbed preparation and planting techniques; turfgrass nutrition; identification and control of turfgrass weeds, insects, and diseases; turfgrass irrigation and drainage systems; turfgrass equipment; and turfgrass management practices including IPM.

SCSC	307	1	Crop Biology and Physiology	Emphasis on seed biology, germination, development of cells and tissues, anatomy, and growth and development of crop plants; plant hormones and tropisms, membranes and membrane transport, water absorption and transport through plants, photosynthesis, respiration and carbohydrate metabolism, and flowering; environmental effects on crop adaptation, growth, development, and productivity.
SCSC	311	2	Principles of Crop Production	Review of plant physiology and crop adaptation to mesoclimates; crop management factors of planting, pest control, plant nutrition, irrigation, GIS, and harvesting techniques; special units on organic farming, conservation agriculture, farming in low-rainfall climates, and bioenergy crops; influence of markets, government policies, and the global economy on cropping strategies.
SCSC	402	1	Crop Stress Management	In this class and associated laboratory you will demonstrate knowledge you have gained in other courses, through readings and through case studies to synthesize your own conclusions about: 1. Basic plant physiology, 2. The limits of growing specific crops in specific environments, 3. What plant stress looks like and how to manage it, 4. Specific technical laboratory skills related to plant physiology and abiotic stress. You will then complete a final a project that applies this knowledge to stakeholder problems that need to be managed.
SOCI	205	12	Introduction to Sociology	This course provides an introduction to the discipline of sociology. While there are many definitions of sociology, as the quote from Bourdieu suggests, sociology is fundamentally about rethinking "common sense." Sociological research at times confirms and sometimes challenges commonly held views about society. The goal of this course is to expose you to how sociologists study society and the ways that society structures our lives. To that end, most of our time will be spent reading some of the best, well-written research on current debates and themes in sociology.
SOCI	304	2	Criminology	Criminology is the scientific study of crime and deviance. This course explores sociological explanations of crime, deviance, and social control in order to understand, contextualize, and analyze criminal behavior. In short, this is course about crime and its causes. Special attention will be paid to: the idea of social control (formal and informal) and the social contexts of crime and violence such as families, schools, and neighborhoods.
SOCI	312	1	Population and Society	The causes and implications of major population trends.
SOCI	319	1	Sociology of Sport	This course will explore the structural and cultural relationship of sport to society. Particular attention will be given to issues of race, gender, sexuality, economics, and politics as they relate to sport. We will explore the historical development of sport in America and the ways in which it parallels the growth and development of other social institutions (e.g., schools). Throughout the course we will also explore contemporary issues in sport and society. The ultimate goal of this course is to provide students a sociological understanding of sport that will complement their everyday knowledge of sport. This goal will be achieved through a mixture of lectures, discussions, and written examinations.
SOCI	326	1	Sociology of Religion	In this course we will examine religious phenomena from a sociological perspective. We will begin with the major sociological theory of religion, by Emile Durkheim, as set forth in his book, The Elementary Forms of the Religious Life (1912). We will proceed to summarize other important social scientific theories on religion, including Freud in his Future of an Illusion and William James in his Varieties of Religious Experience. We will also touch on Weber, Marx, and Guyau. Finally, we will apply these sociological and theoretical insights to selected problems, as set forth in your textbook--church membership, the rise of cults, variations in church attendance, masculine/feminine differences in religion, the relationship of religion to capitalism and social character in general, etc.
SOCI	463	1	Gender in Asia	Gender dynamics in Asia; changes in gender roles; women's movements; women and the economy; women and politics; men's and women's private lives.
SOCI	484	3	Images of Women	This course will examine visual images of women across historical time and multiple cultures, including our own, to explore what representations can tell us about the changing perceptions of the place of woman in society. You will become familiar with theoretical perspectives in multiple disciplines including Sociology, Psychology, Art History, and Film and Cultural Studies through examination of recurring themes and vast differences in representing the feminine. Our Sample will span current media representations of women from objectified to "tough," to images of female deity in ancient to contemporary times. We will discover how assumptions regarding woman as nature and nature as woman have influenced science and develop theoretical tools for understanding representations of women as cyborgs, in animation and in social media. Throughout the course, students will have the opportunity to bring in images of women from many sources for class discussion and analysis as we test out an array of theories to understand how visual images of the feminine are constructed and read in order to create gendered identity, space, and expectations. You will leave the course with a critical eye and the ability to analyze visual information well beyond representations of the feminine.
SOCI	489	3	US-Mexico Border Sociology	This course is designed to introduce you to sociological understandings of the US-Mexico border. This border is much more than a geographical divide established by international treaties. It has a power and a force that structures and patterns human behavior, identity, and belonging for people who live near it, cross it, locate it in their memory, and see its effects on their family and friends. It has political, social, emotional, ethical and economic components.
SPAN	407	1	Hispanic Writers in the United States	Students will demonstrate capacity to analyze cultural texts in detail, practice social and personal responsibility based on the principal concerns exposed by Hispanic authors in the US, and demonstrate social, cultural, and global competence regarding the diverse groups who compose Hispanics in the US. Themes discussed will include immigration, cultural/national identity, marginalization, and gender construction.
SPAN	411	1	Contemporary Hispanic Society and Culture	Cultural, economic, and political aspects of present-day Hispanic societies, and treatment of issues in the media; conducted in Spanish
SPAN	412	1	Hispanic Writers in the US	Contemporary literature by monolingual/bilingual Hispanic authors in the United States; analysis of representative works from major Hispanic communities in the United States; conducted in Spanish.
SPED	302	1	Instructional Design for Students with Disabilities	Familiarizes pre-service teachers with research associated with effective teaching; designing and implementing of instruction for students including those with mild to moderate disabilities; designing and managing environments and materials.
SPED	310	1	Instructional Strategies for Students with Disabilities	Research-based strategies and techniques in teaching students who are at-risk academically or students with disabilities in a variety of general and special education settings; addresses teaching of academics, teacher strategies for engagement and incorporating the use of technology.
SPED	471	1	Classroom Management & Behavioral Interventions	Students will be able to describe and define the components of school-wide positive behavior support and its relationship with risk and protective factors and multicultural issues and be able to discuss the importance of using behavior and classroom management techniques that are relevant to students in terms of race, language, economics and culture.
SPMT	304	1	Psychological Perspectives on Education	This course examines the relationship of psychology to sport and exercise. Topics include history, application of learning principles, social psychology, personality variables, psychological assessment, youth sport, and diversity issues in sport and exercise.

TEFB	324	2	Teaching Skills 2	Students will gain an understanding of the following topics: • Adolescent development, models and theories of human behavior, and a diversity of learning styles • Effective learning environments and practical application of educational theory • Various learning and instructional strategies • Conventional and alternative assessments linked to standards and curriculum objectives • Ethical dilemmas and possible solutions
TEFB	406	2	Science and Math Methods for Secondary	This course examines the theories and practices that support successful secondary science and mathematics teaching and learning. The course focuses on content and criteria central to teaching secondary science and mathematics to 21st century learners. Assignments include readings, discussions, analyses, modeling and practicing science and mathematics teaching and learning. Throughout the course, each student will show observable and measurable progress in each of areas such as: 1.) Apply an understanding of the social, cultural, political and historical nature of science or mathematics on the learner, the learning environment and conceptual change.
TEFB	410	4	Social Studies and the Humanities in the Elementary School	Recent trends, issues, and procedures related to curriculum development and instruction in the social studies and humanities; integration of content, planning, design of appropriate teaching/learning experiences and evaluation; preparation of prototype materials. One of the objectives is the student's ability to create a classroom environment of respect and rapport that fosters a positive climate for learning equity, and excellence.
THAR	201	3	Introduction to World (Non-Western Theatre) Theatre	The course is designed for a general student population that will acquaint you with theatre (broadly defined) and drama of Asia, Africa, the Middle East, Latin America and the Caribbean.. The exploration will: 1) survey the diversity of world cultures that produce rituals, theatrical events, plays, and a variety of performances. 2) Investigate how the cultures of other countries influence Western theatre.
THAR	301	1	Performance in World Cultures	This course examines a variety of global performance traditions. We begin with an understanding that both aesthetic and quotidian performances reveal much about the individuals, groups, and cultures that create and experience them. This course will challenge students to discard their biases in favor of open-mindedness and differing perspectives. We will identify the customs and particularities of several performance traditions and strive to comprehend them from a culturally relative position, which will thus enrich our own worldviews.
URPN	220	3	Digital Communication 1	Applications of computer graphics, rendering, and visualization software in urban design, landscape architecture, and environmental analysis; introduction to basic concepts and principles of graphic composition; rendering, visualization, and linkages to landscape-referenced data.
URPN	325	2	Introduction to GIS in Urban and Regional Planning	Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environmental studies, transportation and hazard management; based on learning through class projects.
URPN	330	1	Land Development I	The course is intended for undergraduate students with little or no background in the land and real estate development process. It is presented as the interface between the physical and financial dimensions in design and development to achieve building and project economies; creating a physical product and a financial venture that are responsive to social and environmental concerns and to market forces. Students will study the specific processes and associated routines that encompass the sequencing and resolution of market segmentation and consumer profiles; site data and suitability analysis; facilities program components and synthesis frameworks; development technical team requirements and leadership needs. Whenever appropriate, concepts will be related to real life applications.
VIBS	204	1	Fundamentals of Food Toxicology and Safety	Toxicity and safety of various foods and food additives, ingredients and contaminants; occurrence, control and prevention of food transmitted diseases.
VIBS	404	1	Food Toxicology	This is a capstone course designed to educate students in the basic tenets of food safety and to promote an awareness of the interdisciplinary contributions of toxicology, chemistry and microbiology. An understanding of contemporary issues in food safety and dietary risk factors for disease will be encouraged. Critical thinking and problem solving on the part of the students will be emphasized.
WFSC	403	1	Animal Ecology	Concepts of animal ecology which emerge at various levels of organization; the ecosystem, the community, the population and the individual; laboratories emphasis on the quantitative analysis of field data and the simulation of population dynamics.
WFSC	433	1	Molecular Ecology in Wildlife and Fisheries	This course is intended to provide students with the fundamentals of genetics and the application of genetics concepts and techniques relevant to the conservation and management of wildlife and fisheries. The course will be enriched with the presentation and discussion of scientific papers on wildlife and fisheries genetics, covering a variety of topics of genetic research in conservation, management, and aquaculture. Genetics is a crucial aspect that needs to be considered when conserving and managing populations and species. For this reason, modern wildlife and fisheries professionals are expected to be familiar with the use of genetics in their field.
WGST	200	3	Introduction to Women's and Gender Studies	This course is designed to introduce you to concepts, questions, and concerns of the interdisciplinary field of women's and gender studies. In particular, we will explore "gender" as it is experienced and constructed across lines of race, class, sexuality, and nation. Discussing issues that range from citizenship to sexual violence, this course requires an active, respectful, and consistent engagement with course materials and fellow students.
WGST	207	2	Introduction to Gender and Society	This course will give students an introduction to the basic concepts and theories of sociology needed to excel in the rest of the course. The majority of the course will focus on issues relating to gender and sexuality including but not limited to gender binaries, gender roles, political and economic issues, global problems, and media portrayals. Critical thinking and discussion will be important components of the course.
WGST	300	2	Psychology of Women	The course includes attitudes about gender, theories on gender development, and research about similarities and differences between men and women. This course will cover both a theoretical and pragmatic understanding of the psychology of women. We will utilize feminist theories and ideas to critically examine the social, psychological and political implications of our understanding of women and gender. This course has been completely revamped to integrate culture into each class. Research on how each gender is viewed will now include a comparison of each gender from both paternalistic and maternalistic societies.

WGST	310	1	Motherhood in Society	This course examines critical issues in contemporary American motherhood. We explore some of the dilemmas that precede birth or adoption as well as conflicts that women confront as mothers, especially the tensions that develop between caring for self and others and between work and family. We pay particular attention to how controversies regarding reproduction and motherhood are shaped by race and class, intensifying neoliberal sensibilities, and notions of "the family" that are simultaneously expanding and contracting. Our goal will be to locate debates in their social and political contexts and to understand the cultural forces shaping experiences and representations of mothering. By the end of the course, students should be able to understand how public discourse on motherhood shapes and reveals ideas about gender, race, class, and sexual identity; understand basic ethical, scientific, and political dilemmas presented by increasingly sophisticated reproductive technology; understand how "risk," "need," and "responsibility" are constructed in debates surrounding fetal alcohol syndrome, fetal rights, childbirth, breastfeeding, childcare, and "work-family" conflicts; and understand how an ideology of domesticity and expectations of "ideal workers" structure both the practice of mothering and how mothers in non-traditional families negotiate their various commitments.
WGST	316	1	Sociology of Gender	This course will explore the social and cultural construction of gender and gender differences. We will examine the dynamics of gender in empirical studies of varied sites of social life, including the constitution of experiences of embodiment; immigration; families, work sexuality, intimacy; and in the contexts of globalization. Gender is also a "troubled" category, seemingly fixed but unstable, and impacted by other dimensions of difference and inequality. Throughout the semester we will attend to these issues as well as to situated articulations of gender and social class, racial ethnicity, nationality, sexuality, and other lines of power-laden differences.
WGST	334	2	Women's Health	Women's Health is designed to provide you, the student, with the opportunity to explore the health issues and health care concerns of women by identifying a broad range of health topics that are either unique to women or of special importance to women. The multidimensional roles of American women as individuals, partners, mothers, nurturers, caretakers, and career persons create a need for their health status to be of vital importance. While women and men both experience similar diseases, disorders, and causes of
WGST	343	1	Sex, Gender, and Cinema	This class will discuss a collection of films that may seem triply strange to the average US student: global queer art films. As global films, these examples will challenge you with culturally diverse situations that tend to seem alien to many US-based students; as queer-themed films they will focus in one way or another on non-heteronormative desires at both the level of character and at the level of erotic orientation (homoeroticism rather than heteroeroticism) within the films themselves; finally, as art films they exemplify the values of the art world rather than the entertainment industry. In simultaneously challenging you in these ways, these films and the readings about them will oblige you to develop the analytical and scholarly skills necessary to understand significant versions of difference. Thereby you will better assess and understand a complex and surprisingly wide and fascinating world.
WGST	367	1	Women in Government Around the World	This course examines the evolution of women's representation in governments around the world, with a focus on the legislative and executive branches of democratic governments. We will explore factors theorized to affect both the supply of and demand for female candidates and appointees and when and why political institutions impact women and men differently. The course provides an in-depth exploration of scholarly literature about representation of women in politics and class members will gather data and conduct comparative research about representation of women in politics.
WGST	374	1	Women Writers	History of literature by women in English primarily from the 16th century to the present; emphasis on continuity of ideas and on literary contributions; study of poetry, essays, novels, short stories, with particular attention to characteristic themes and to racial, social, cultural diversity of women writing in English.
WGST	401	1	Feminist Theory	Students will be able to identify and discuss major trends in feminist theory since the early nineteenth century, discuss the importance of liberalism, capitalism, transnationalism, intersectionality, essentialism, performativity, difference, and identity in shaping feminist theories, and apply feminist theory to better understand a contemporary social problem and possible remedies to that problem.
WGST	407	1	Women, Minorities, and Mass Media	This course will explore social identity in the context of popular culture and mass media. Drawing on literature from Communication, Media Studies, Women's Studies, African Studies, sociology, and psychology, we will learn about theories and case studies that help understand how the media are sites for constant negotiation and construction of identities such as masculinity, femininity, blackness, and "otherness." The term "minorities" will be interpreted broadly so that we can explore power and privilege in a variety of contexts such as gender, race, ethnicity, sexuality, class, age, nationality, physical/mental disability, and religion.
WGST	430	1	Employment Discrimination Law	This class will provide an overview of the law concerning employment discrimination, introduce a variety of philosophical and social policy considerations regarding employment discrimination law, and have students examine their own beliefs concerning employer-employee relationships, individual and structural discrimination, and the role of regulation in changing individual and societal behavior. Students will come away with a greater understanding and appreciation for the myriad views regarding prejudice, stereotypes, discrimination, and diversity.
WGST	461	1	The History of American Women	This course surveys relevant religious, legal, political and cultural factors which helped shape the role and character of women in American society from colonial times to the present. Women's historical role in the nation's development will be examined along with women's continuing attempt to achieve political, economic, and social equality.
WGST	474	1	Studies in Women Writers	This course will examine the characteristics of the memoir genre, exploring the ways in which 20th - and 21st - century American women writers variably represent selfhood. Because the memoir arguably moves beyond the representation of the autonomous autobiographical self to the historical events and people as well as the cultural ideologies (i.e., of gender, sexuality, race, ethnicity, and nation) that construct and contextualize identity, this course is particularly interested in the "relational" nature of identities.
WGST	476	1	Sex and Sexuality in History	This course investigates sex and sexuality in history by focusing primarily on the early-modern and modern eras in the Anglo-American Atlantic world, although we will delve further back into the past and address different places at times during the course. It will examine changing ideas about sex and sexuality over time, including their interaction with concepts of gender, race, class, religion, science, technology, medicine, politics, and popular culture. It will further address historical and cultural processes creating modern concerns about sex and sexuality. We will pay particular attention to the historically contingent nature of understandings of sex and sexuality and to explaining why and how these understandings have changed.

WGST	481	2	Gender and Health	This course is designed to help students understand how the biological body and the social environment interact in matters of public health. More specifically, it aims to explore the reciprocal relationship between normative assumptions of gender/sex, on one hand, and health and science policy, on the other. In discussing reproductive health, obesity, prostate and breast cancer, and sexual dysfunction, we will analyze how notions of gender/sex simultaneously shape and reflect the questions health scientists ask, the methods used to answer them, and the interpretation of research results.
WGST	489	2	Collaborations in Feminism and Technology	Gender is a complex embodied, socio-cultural phenomenon and technology is not just a thing or object but a set of relations that permeates all parts of our culture. In this class we will learn the tools of feminist theory to explore the multifaceted interactions between technology, ourselves and local, national, and international contexts through themes including gender, race, difference, sexuality, the body, labor, place, and surveillance. We will approach these topics from a historical perspective as well as a critical, cultural perspective. In the process, we will challenge some of the taken-for-granted assumptions about both gender and technology.



### Fall 2016 Sustainability Graduate Courses

	Count
Total Courses	897
Sustainability Courses	58
Courses Including Sustainability	67

SUBJECT	COURSE	# of Sections	Name	Course Description
AFST	689	1	Rhetoric & Public Culture: Gender & Black Resistance from Abolition to Lemonade	This course does so by examining the rhetorics of and about black resistance (broadly) and black freedom movements (specifically) in the United States from the early nineteenth century onward. The course is designed to acquaint students with histories and analyses of racial oppression and traditions of black protest with concentrated efforts to examine intersections of racial and sexual hierarchies and to recover women's/queer rhetorics. The course seeks to enable critical and historical dexterity as readings will traverse a number of time periods and engage a variety of "texts" (e.g., museums, speeches, images, performances, manifestoes, protests, etc.), offering students less of an exhaustive survey and more of a series of in-depth portraits of resistance and the contexts through which protests and movements emerge over time. To be clear, although contemporary forms of resistance are exigencies for this course, the bulk of course discussions and readings will ask students to engage a selection of nineteenth and twentieth century rhetorical/mediated/materialized texts and contexts.
AGEC	608	1	Economics of Foreign Intervention, Conflict and Development	This course is intended to expose students to the economic models of conflict and development; dynamic socio-political models of conflict; conflict and vulnerable groups; quantitative techniques and methods in conflict and development research; interaction between poverty, natural resources and conflict in developing countries; role of multilateral, bilateral, and strategic stakeholders in conflict resolution and promotion of economic development. Classroom sessions will include an introductory lecture to each topic, followed by in-depth discussions between students and the professor. In addition, there will be occasional guest lecturers sharing their first-hand experience from the development field.
AGEC	659	1	Ecological Economics	Study of the relationships between ecosystems and economic systems; understanding the effects of human economic endeavors on ecological systems and how the ecological benefits and costs of such activities can be quantified and internalized.
ANTH	689	1	Environmental Archaeology	This course examines the paleoecological context in which past humans interacted with the natural environment, an environment encompassing plants, animals, and landscape. Lectures, readings, and assignments will cover advanced principles, method and theory, and practical applications used in paleoenvironmental reconstruction.
ARCH	633	1	Applied Architectural Systems	Building energy consumption patterns and conservation strategies; natural and mechanical subsystems for environmental control; subsystem design criteria, economic considerations and selection methods.
BAEN	614	1	Renewable Energy Conversions	Managing energy/power systems through engineering and technical aspects of quantifying and designing the suitability of several types of renewable energy resources; providing new insights of vast resources that future engineers can harness to augment diminishing supplies of non-renewable energy.
COSC	622	1	Construction Economics	Foundation in Life Cycle Cost Analysis computation within the context of current issues in environmental sustainability and evidence-based thinking; lean construction as a strategy to overcome the hurdle of first cost.
COSC	663	1	Sustainable Construction	Contribution of materials and methods to meeting the needs of the present without compromising the ability of future generations to meet their own needs; overview of international, national and local programs promoting sustainable construction; characteristics of the components of successful sustainable construction projects; theories and practices through case studies.
ECON	633	1	Energy Markets and Policy	The course provides an in-depth survey of recent changes in energy markets and regulatory policy. New energy markets are developing, and environmental regulation is targeting the energy sectors. As a result, it is critical to understand the fundamentals of how these markets operate so that optimal energy policy can be designed. This course uses basic economic theory as a framework to analyze the real-world operation of energy sectors including gasoline, oil, electricity, and natural gas. Empirical research in these areas draws upon the experiences in the U.S. and elsewhere so that theoretical discussions are informed with evidence from actual experience. The theory and empirical analysis will explore the optimal design of energy policy in areas such as gasoline taxes, fuel economy regulations, wholesale and retail electricity markets, new development of shale plays, cap-and-trade programs to reduce CO2 emissions, and policies to address energy challenges in developing economies. At the end of the course, you should be able to apply economic tools to critically analyze the design of efficient policy to various energy sectors.

EDCI	645	1	Society and Education in World Perspective	This course is designed to examine socio-cultural, economic, and political forces that impact educational systems, particularly systems of teacher education, around the world. The content will be presented from socio-cultural, historical, philosophical, political, and economic perspective. The class will assess how different countries address issues related to differences in terms of race, class, culture, ethnicity, gender, power and how these factors influence the structure of educational systems, particularly structures of teacher education. In addition, the class will examine and analyze issues, problems, and solutions as they relate to providing all children with high quality education around the world. Important global issues relating to teacher education, global education and consciousness of others' perspectives will also be examined.
EDCI	677	1	Strategies of Teaching in a Culturally Pluralistic Society	This course is designed to provide students historical information and pedagogical insights concerning teaching in culturally, linguistically, ethnically and economically diverse (CLEED) classrooms and working in CLEED environments. In addition, the course will address cognitive, affective and socio-cultural aspects of learning and teaching CLEED learners and issues relative to working with a CLEED workforce.
EHRD	638	2	Special Issues in Adult Education Intersectionalities of Race, Class, Gender, Sexual Orientation, etc.	This course provides a unified framework for helping students understand and critically analyze several forms of social oppression including racism, classism, sexism, heterosexism, ableism, religious oppression, and ageism, as well as the parallels and interconnections among them. The course relies on a series of interactive, experiential pedagogical activities to help students understand the meaning of social difference and oppression in their personal lives and social systems. The course also allows students to explore the intersectionalities of race, class, gender and sexual orientation as it is written about in the field of adult education. Students will be working with issues of diversity and social justice throughout the course.
ENTO	631	1	Principles of Integrated Pest Management	An introduction to Integrated Pest Management (IPM): Concepts, principles, development and application of IPM. IPM constitutes a series of pest control tactics and strategies toward more sustainable agriculture, natural resources, and urban and rural health and well-being.
ESSM	631	1	Ecological Resotration of Wetland and Riparian Systems	How wetland and riparian areas link terrestrial and aquatic systems and function hydrologically and ecologically within watersheds; integrated approaches for restoration of degraded wetland and riparian systems; improving water resources through vegetation management with a special interest in rangelands.
ESSM	651	1	Geographic Information System for Resource Management	Geographic Information System (GIS) approach to the integration of spatial and attribute data to study the capture, analysis, manipulation and portrayal of natural resource data; examination of data types/formats, as well as the integration of GIS with remote sensing and Global Positioning System; laboratory includes extensive use of GIS applications to conduct analyses of topics in natural resources.
ESSM	671	1	Ecological Economics	Ecological Economics is defined as the study of the relationships between ecosystems and economic systems. In addition, Ecological Economics integrates environmental economics and ecological impact assessment and encourages innovative ways of thinking about the linkages between ecological and economic systems. This trans-disciplinary approach "recognizes the need to make economies more cognizant of ecological impacts and dependencies; to make ecology more sensitive to economic forces, incentives and constraints; and to treat integrated economic-ecological systems with a common set of conceptual and analytical tools" (Robert Costanza, 1989. Ecological Economics, 1:1-7).
HLTH	607	1	International Health	Health and health care delivery around the world; how various organizations are addressing global health concerns; includes emerging diseases, eradication of disease, global nutrition, family planning; emphasis on providing health information on a cross cultural environment.
HLTH	634	2	Women's Health	Women's Health is designed to provide you, the student, with the opportunity to explore the health issues and health care concerns of women by identifying a broad range of health topics that are either unique to women or of special importance to women. The multidimensional roles of American women as individuals, partners, mothers, nurturers, caretakers, and career persons create a need for their health status to be of vital importance. While women and men both experience similar diseases, disorders, and causes of death, women often experience these in different forms and at different stages and ages in life. Analyze the cultural, social, economic, and political state of affairs of women's health. Determine the relationship between values, lifestyle, socioeconomic status and education in the healthcare and behaviors of women
HLTH	635	2	Race, Ethnicity, & Health	Race, Ethnicity, & Health (HLTH 635) course will explore in-depth the racial, ethnic, and cultural dimensions that underlie health and health disparities. Special attention will be paid to culture, social economic status, and governmental policies as they influence the adaptation of health practices. The aim of this course is to introduce students to important health issues that face individuals of different racial and ethnic backgrounds. This course will address and explore a range of issues related to the health status of various racial and ethnic groups.
HORT	608	1	Plants for Landscape Design	Identification and use of indigenous and introduced plants in landscape designs; plants for special uses in commercial and residential developments; emphasis on ornamental attributes, identification, cultural requirements, limitations and adaptability in urban and suburban environments for important taxa; discussion of current issues, research, and trends in selection, marketing, and utilization of plants for landscape design. Sustainability is a major tenet of this course.

HPCH	620	2	Introduction to Border Health	This course provides introduces the U.S.-Mexico border as a dynamic region where public health problems grow out of a combination of factors in the United States and Mexico. A major focal point is community health, to which the course relates the various public health disciplines as an introduction to public health. Overarching factors such as population movement, diverse sociocultural and economic demographics, and a rapidly expanding population influence infectious disease transmission and general population health. Information about the history and cultures of the South Texas region provide background information for understanding the confluence of factors shaping regional public health. Economic forces that influence health include international commerce, the retail and medical sectors, and the need for seasonal hand labor in various economic sectors in different parts of the United States. Environmental challenges in the region include water pollution and scarcity, air pollution, access to healthy food, and poor urban and rural infrastructure. Policy and political factors also shape population health and economics along the border
ICPE	601	1	Environmental Issues of Energy Systems	This module is aimed at providing a short introduction to energy-related engineering principles and energy conservation and efficiency. Then, it seeks to familiarize students with the basic processes and chemicals/materials used in extraction of primary energy sources and their conversion into energy delivery forms; and discuss their impact on the environment as well as approaches for minimizing contaminants released by extraction and conversion of energy sources. These objectives will be applied to most commonly used energy sources in the World based on their current total use as follows: oil and natural gas, coal, nuclear energy, biomass and biofuel, hydropower, wind energy, solar energy, and geothermal energy.
ICPE	608	1	Beyond Science and Technology: The Role of Policy in the Future of Energy in the U.S	This module is meant to introduce students to the various ways that government policy affects domestic American and global energy markets. It will cover the following topics: 1) the politics of the international oil market; 2) energy and U.S. foreign policy; 3) China and energy; 4) how science and technology policy is made in the United States; 5) U.S. environmental and natural resources policies and programs, as they affect energy issues; and 6) U.S. energy policy and the search for "energy security."
ICPE	609	1	Introduction to U.S. Energy Law and Policy	This course provides an introduction to energy law and regulation in the United States. It focuses on the basic principles of public utility regulation, the division of jurisdiction between federal and state governments, and the key regulatory statutes and case law governing energy resources such as water, coal, oil, natural gas, nuclear and renewable energy. We will analyze the environmental, regulatory, land use, and economic concerns as they relate to each energy source. Finally, this course will provide an introduction to electricity and electric power competition in the United States.
INTA	608	2	Fundamentals of the Global Economy	Examines three fundamental pillars of the global economy: international trade, international finance and foreign direct investment (FDI); appreciation for the complexities of the international environment from both theoretical and policy perspectives.
INTA	645	1	Women and Nations	Objectives • To see the linkage between the security and situation of women and the security and situation of the nations in which they live. • To understand the roles women play in world society as producers, reproducers, agents of cultural continuity and change, and to render women "visible" in international and national affairs. • To explore in greater depth women's choices about education, family, and work in the developing world, and how these affect and are affected by national and international forces and influences. • To investigate transnational issues directly concerning women's lives, and the objectification and subordination of women that often results. • To discuss the dynamics of change in women's lives and in their societies, and to learn about programs for change that already exist.
INTA	689	3	International Development Theory and Practice	The course will review various definitions of development and the theories which explain why some countries develop and others do not. Current controversies will be examined about what factors lead to economic growth; what role good governance and democratic institutions, the cultural values of a society, and social services play in development. Finally, the course will analyze how the foreign aid programs of donor governments and international institutions affect the development process, the politics of aid programs and the mechanisms for their implementation, and the role of new actors in development such as non-governmental organizations, corporations, and foundations.
LAND	685	1	Green Roofs on Campus	This course is set up to engage students in active participation of living wall and green roof design, installation, measurement and maintenance on campus. Students will help layout/design, construct and maintain a demonstration living wall and green roof facility on the Langford building. This semester students will help assemble a green roof system, conduct plant survival assessment and possibly help select and layout plants for a living wall. Students may help test and install environmental monitoring equipment as well as evaluate and synthesize the data.

MEEN	669	1	Alternative Energy Conversion	Design and analysis of alternative energy conversion processes and systems that are based on converting energy directly (e.g., fuel cells, photovoltaics), utilizing non-combustible heat sources (e.g. geothermal, ocean gradients, solar, and nuclear fission and fusion) and obtaining energy from the environment (e.g. wind, hydroelectric, ocean tides and waves). The objective is to provide the engineering principles required to analyze, design and evaluate alternative energy conversion processes and systems. The skills required to compare the various technologies from both a technical, economic and feasibility standpoint will be provided.
OCNG	689	1	Special Topics: Ocean Pollution	This course provides the fundamental concepts of ocean pollution, and is grounded on fundamental scientific principles. It provides the basis of chemical structures, toxicity mechanisms and analysis of the major groups of pollutants. Approaches for environmental impact assessment of pollutants in marine ecosystems are also discussed.
PLAN	610	1	Structure and Function of Urban Settlements	The study of urbanization and how geographic, economic, sociological and political factors give rise to changes in the structure and functions of cities; how the movement of people, products, services and capital create unique urban patterns of land use and infrastructure with implications for long-term livability and sustainability.
PLAN	625	2	Geographic Information Systems in Landscape and Urban Planning	Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environment studies, transportation and hazard management; based on learning through class projects.
PLAN	641	1	Environmental Planning	This course will cover a broad range of topics associated with coastal environmental planning from both a social and natural science perspective. The course will focus not on single media (e.g. air, water, waste) or species approaches, but on planning for entire natural systems as an emerging focus for environmental decision making in the United States. It is intended for graduate students with an interest in solving the practical problems associated with planning for coastal ecological systems and is open to students in all departments, including Landscape Architecture and Urban Planning, Wildlife and Fisheries, Public Policy, Renewable Resources, Coastal and Marine Resource Management, and Ecosystem Science. The course will be problem-based, where students will have the opportunity to apply the principles of environmental planning to realistic problems and settings. The content will prepare students for the interdisciplinary, complex, and conflict-driven problems they will have to address when working in the environmental arena.
POLS	644	1	Seminar in Politics of Race, Ethnicity and Public Policy	Examines race, ethnicity, and public policy; emphasizes how policy process considers race and ethnicity, and differential impact of policy on racial groups.
PSAA	606	1	Environmental Policy and Management	This course is designed to provide an introduction and focused look at environmental policy, policymaking, and management in America. It discusses the role of governmental institutions, political parties, political processes and behavior, public policies, and the political history in environmental policy and policymaking in the United States. It is also concerned with how American social institutions, racial and ethnic equity, public opinion, political psychology, the mass media, and interest groups affect environmental policy. It assumes that you have no particular knowledge of the political system or of environmental problems. This is an elective course for the PPA track, and counts toward the Energy, Environment, & Technology Policy and Management concentration.
PSYC	689	2	Health Psychology of Disparities	Pervasive disparities exist in health status and access to care across sociodemographic groups. Health disparities pose a significant problem from public health and social justice perspectives, and are the target of current national initiatives (e.g., Healthy People 2020). New approaches are urgently needed to combat inequities in health. Importantly, disparities exist along social categories – such as race, ethnicity, sex, sexual orientation, age, disability status, socioeconomic status - about which psychologists have expertise. There is great potential for psychologists to contribute to new understanding of mechanisms by which health disparities arise and are maintained as well as to the development of effective interventions to combat disparities. In this course, we will first review major health disparities and then explore diverse theoretical and methodological approaches from various scientific disciplines to illuminate determinants of health disparities and to support development of ideas to further understand and target health disparities. Finally, each of you will prepare a grant proposal integrating your expertise/area of interest and the study of health disparities.
RENR	659	1	Ecological Economics	Ecological Economics is defined as the study of the relationships between ecosystems and economic systems. In addition, Ecological Economics integrates environmental economics and ecological impact assessment and encourages innovative ways of thinking about the linkages between ecological and economic systems. This trans-disciplinary approach "recognizes the need to make economies more cognizant of ecological impacts and dependencies; to make ecology more sensitive to economic forces, incentives and constraints; and to treat integrated economic-ecological systems with a common set of conceptual and analytical tools" (Robert Costanza, 1989. Ecological Economics, 1:1-7).
SCSC	615	1	Reclamation of Drastically Disturbed Lands	Theoretical and practical aspects of reclamation of lands disturbed during mining of lignite, uranium, phosphorous, oil shale and other minerals and disturbances due to industrial activities; emphasis on physical and chemical characteristics of disturbed materials and their impact on establishment of permanent vegetation.

SOCI	617	1	Comparative Race & Ethnic Relations	In this course, we will explore how people in various parts of the world construct, negotiate, and challenge racial and ethnic hierarchies Unlike previous courses, which focus on the experiences of one group or on the United States specifically, this course seeks to examine patterns of race and ethnic stratification as a global sociological issue or problem.
SOCI	618	1	Sociology of Education	In this course, we will read and discuss scholarly articles and book chapters that are seminal to the field of the sociology of education, especially as the field relates to social inequality and social injustice. Overall, the readings cover the most widely known, most influential, or most topical studies in the sociology of education that focus on these areas. I expect students to read these pieces and critically discuss them in class. I will take long turns talking on occasion, but this is not a lecture-oriented class. I expect students to improve their skills as sociologists. In addition to weekly preparation to discuss the material, you will learn basics of regression decomposition and basic differences between types of regression models. Finally, you will develop a proposal to do a research project or conduct and write up a research project. These papers require preapproval. Students who have started a paper germane to this class may seek approval for that paper to continue to refine it for potential publication.
SOCI	627	1	Seminar in Law, Deviance, Social Control, Race, Class, and Gender: Minorities and Drugs	In this seminar, we examine the relevant literature and research in the area of minorities and drugs, including the social sources of law in this area, the role of law, and problems in law enforcement. Also, we focus on the effect of minority status on penalties for drug use.
SOCI	647	1	Urban and Spatial Demography	The goal of the seminar is to help motivated students become better acquainted with the area of urban and spatial demography. Topics will cover classical and contemporary issues relating to urban and spatial demography giving special emphasis to issues relating to: urban and metropolitan form at the micro and macro levels; the concepts, data and methods used in urban demographic research; patterns of urban change; and inequality, poverty, and ethnic segregation in American urban areas.
SOCI	661	1	Sociology of Gender	This seminar deals with a persistent and complex set of questions about how we can best understand gender, that is, what are the best approaches to theorize, conceptualize, define, operationalize and analyze the social phenomenon of gender. The course has a twofold agenda. First, it gives a theoretical overview of various approaches to gender. We will discuss the major theories concerned with the ways in which we 'become gendered,' and will evaluate naturalist, psychoanalytic, materialist and post-structuralist accounts. Secondly, we will learn how we can use and advance these theoretical approaches in empirical research in the process of writing a grant proposal. Our goal for this course is to develop a critical and sophisticated understanding of gender. You should learn to be able to identify the strengths and weaknesses in various theoretical approaches to gender. At the end of this course, you should be able to develop a theoretically- and empirically- informed understanding of gender relations that will advance your own research agenda.
SOCI	667	2	Seminar in Race and Ethnic Relations	Origins, extent, consequences of racial and ethnic differences on key demographic variables such as fertility, mortality, migration and population size, growth, distribution and composition; how demographic variables affect and are affected by racial and ethnic differences in family structure, social mobility and socioeconomic stratification.
SOCI	667	2	Seminar: Racial and Ethnic Identity & Identification	The purpose of this graduate seminar is to explore selected issues involving racial and ethnic identification and identities. The primary focus of the course will be on contemporary issues in the United States, although some parts of the course will examine the historical context of these contemporary issues and global contexts. Most of the material and reading comes from sociological sources, although some material will also come from other disciplines. Topics covered include the construction of racial and ethnic identities, identity development, the measurement of racial and ethnic identities and identification, multiracial identities, intersecting identities, immigration and identities, and debates about the future of racial and ethnic identities and categories.
SPMT	613	1	Diversity in Sport Organizations	Examines an encompassing perspective of diversity within North American and international sport organizations; analysis and understanding of the various ways that people within sport organizations can differ; treats issues of the non-dominant, historically under-represented elements of U.S. society with an emphasis placed on racial and gender issues.
WMHS	601	1	Hydrology and Environment	Examination of hydrologic processes affecting surface and groundwater resources; impact of climate, soils, vegetation, land-use practices and human effects on hydrologic processes; natural-scientific perspectives emphasized.
ANSC	689	1	Current Issues in Animal Agriculture	The field of animal agriculture has, of late, been a lightning rod for skeptics and critics with both real and inaccurately perceived criticisms of what, how and why certain things are done. This course is intended to prepare graduates to project a professional image while using their communication skills to describe animal agriculture and to discuss its strengths and weaknesses with others. This course has multiple lectures and discussions over topics such as climate change and sustainability, and other sustainable topics.
ARCH	607	3	Architectural Design 3	Application of verbal, graphic, research, critical thinking and comprehensive design skills to advanced architectural projects or design competitions that address cultural traditions, human behavior and diversity, the context of architecture, collaborative skills, ethics and professional judgement. Core design studio.

ARCH	644	1	Visual Cultures of Islamic South Asia	This graduate-level art and architectural history course samples the myriad forms of visual expression produced in South Asia during the reigns of the Sultans (1192-1526) and the Mughal emperors (c. 1526-1857). Works to be considered include Mughal miniature painting; Mughal mosque, palace and tomb architecture at the imperial and sub-imperial levels of patronage; textiles (khilats, jama, tents and carpets); thrones; weapons, jewelry and precious objects; and various forms of durbar, procession and spectacle. Thematically the course engages 1) artistic expressions of power, faith and pleasure associated with Islamic rule in its specifically South Asian contexts; 2) the visual traditions and practices of non-Muslim communities, including but not limited to Rajput, Hindu, Jain, Armenian and European/Christian; and 3) the presence of the British, whose influence gained greater potency following the transfer of the diwani to the British East India Company in 1765, culminating with the Sepoy Rebellion in 1857.
ARCH	675	1	Health Design and Research	Examination of health environments to include buildings, healthcare gardens and restorative landscapes, and urban design for home-based care and independent living; emphasis on research-informed approaches for patient-centered design that reduce stress and promote improved health outcomes.
ARCH	689	2	Seminar in Urban Design for Architect	Seminar in Urban Design for Architect; investigation of the creative role of architectural ideas in the design process and their manifestation of successful urban design; the identification and evaluation of urban design examples that are at the leading edge of architectural practice and anticipate the future; consideration of neighboring, local, region level, as well as the social and economic factors that influence urban form and fabric; discussion of the works and writings and the case study of livable urban design. Sustainability is a course objective.
BAEN	627	2	Engineering Aspects of Packaging	Introduction to properties and engineering aspects of materials for use as components of a package and/or packaging system. Principles of design and development of packages. Evaluation of product-package-environment interaction mechanisms. Testing methods. Environmental concerns. Regulations. Food packaging issues.
COMM	689	1	Critical Cultural Studies	The premise of our seminar is that understanding various theorizations of power and resistance will provide space for unexpected encounters within ongoing disciplinary conversations— conversations that students are expected to discover for themselves. As such, the readings will serve as intentional resources for each student as they consider how to intervene wherever they happen to locate themselves within the discipline of communication or humanistic inquiry more generally.
CVEN	689	2	Tools for Highway Materials and Pavement Design	This course addresses the theory and practice in pavement design, pavement performance, structural design of pavement layers, types of materials used in pavement layers, characterization of pavement layer materials. Concepts of pavement management will be introduced. Pavement design computational tools will be introduced and applied.
EDCI	615	2	Classroom Practice in Adult ESL	Students will be able to discuss and demonstrate knowledge of major theoretical and practical issues in adult ESL literacy, including: • Social, cultural, and cognitive perspectives on adult ESL literacy - issues of identity and socialization • Political and economic consequences of adult ESL literacy - issues of educational policy and power • Adult literacy, biliteracy, and language diversity in the United States • Adult language learners' funds of knowledge and participatory literacy training • Principles of adult ESL learning, including a continua of biliteracy • Contemporary instructional models and approaches in adult literacy education • Adult curriculum design, including content selection and materials development • Assessing needs, finding student themes, and individual goal setting • Conveying civic competencies and behavior expectations through classroom management techniques • Active learning and authentic assessment
EDCI	643	2	Teaching in Urban Environments	This course is designed to support master's level students in developing a knowledge base in urban teaching. This course will enable students to share and discuss theoretical and conceptual frameworks that permeate city classrooms. Also, students will examine historical perspectives, pedagogical knowledge, and insights concerning the educational experience of teachers and learners in urban settings. Usually, this course follows "EDCI 630 Urban Education" and is the second course in a series of classes that will establish the "teaching component" for students with an emphasis in the program, Urban Education. This course also discusses, privilege, social justice and equity, and race issues.
EDCI	650	1	The Bilingual/Multicultural Young Child in Family and Culture	Several theories of child development are examined and critiqued by exploring cross-cultural comparisons of western concepts of child, parenting, and what constitutes learning. Bilingual children's language development is discussed, as are the implications of the evidence from different cultures for policy and practice in educating young children of diverse cultures.

EDCI	662	1	Philosophical Theories of Education	Educational perspectives, policies, and practices are based upon assumptions about people, culture, and society. Educational philosophers study serious problems in education by analyzing and clarifying arguments, theories, and language. Informed by epistemology, linguistics, hermeneutics, ontology, axiology (ethics and aesthetics), science, logic, sociology, theology, and political theory, educational philosophers raise questions, enhance arguments, introduce new language, deconstruct sedimented perceptors, and generally clarify thoughts about education, teaching, and learning. This survey course will examine selected historical and contemporary theories of education that have impacted schooling as it is practiced today. Therefore, contemporary philosophical perspectives of education that challenge established educational practices will be included in substantial ways in the course: critical theory, feminist theories, queer theory, constructivism, pragmatism, poststructuralism, and postmodernism. During the semester students will read and discuss articles and book chapters dealing with various philosophical topics.
EEBL	601	1	Physiological Ecology	This first component of the Core Sequence in Ecology & Evolutionary Biology examines how physiological systems respond, over different timescales, to variation in physical and biological environments. This course has two primary goals: (1) to understand how the interaction of organism and environment determines characteristics that are relevant to ecology, and (2) to understand how these individual characteristics affect population and interspecific dynamics. Lecture material will be drawn from book chapters, contemporary reviews and the primary literature. Lectures includes topics such as effects of global change.
ENGL	670	1	The Borders of Latino/a Literature and Culture	For the fall 2016 semester, the course will focus on the border as a physical, metaphorical and theoretical space for understanding contemporary Latino/a literary and cultural production. Thinking about the borderlands goes back over 150 years, and it was brought to theoretical maturity by such writers as Américo Paredes and Gloria Anzaldúa. "Border Thinking" offers a critical lens for reading Latino/a culture, and the recent growth of transnational cultural production and exchange—both at the level of cultural creation and critical reception—make Border Studies a necessary field with which to engage. Through the examination of an interdisciplinary group of theoretical and creative texts, students will gain a foundation for understanding the border within Latino/a cultural production.
ENGR	689	7	Entrepreneurship Related to Nanomaterials for Energy Applications	This technical elective will explore the various aspects of entrepreneurship with a focus on advanced nanomaterials (from discovery to commercialization) for use in the energy sector. Upon completion of this course, the student will have been exposed to all aspects of the journey from idea generation (incorporating technical design and comparative analysis to existing technologies) ... to raising early stage capital... to staffing the enterprise... to developing the business plan... and selling the product. The two primary outcomes of this course will be: (1) a solid grasp of the technical need for and the process of designing a better device or material system, incorporating the collective mechanical engineering training of a senior-level student and the state of the art solutions which these advanced materials offer to the energy sector, and (2) a foundation in the development of an effective business strategy to capitalize on the new device or system. It includes sustainability in design and economic implications of energy.
ESSM	626	1	Fire Ecology & Natural Resource Management	The goal of this course is to introduce you to the major aspects of wildland fire science including theoretical, empirical and practical components of fire research and management in a variety of ecosystems. Through formal lectures, multi-media presentations, assigned readings and group discussions we will cover a broad spectrum of the classic and current scientific fire literature. We will also attempt to provide you with hands-on prescribed burning experiences as circumstances and weather permit. Following successful completion of this course, you should be able to discuss the ecological effects of fire in different ecosystems, identify the factors that influence wildland fire behavior, justify the use of prescribed burning, write an acceptable prescribed burning plan, conduct a search for pertinent fire literature and critically review and analyze research and management endeavors utilizing fire.
ESSM	635	3	Ecohydrology	The course will focus on providing an in-depth coverage of the interaction of the water cycle and the biome (both fauna and flora) at multiple scales. In other words, we will be examining how the biome affects water and visa versa. Understanding these interactions is the essence of Ecohydrology. In the process, students will also gain an in depth knowledge of basic hydrological processes. Case studies will be utilized throughout the semester with an emphasis on student lead syntheses and participation. Critical thinking and analysis will be emphasized. Touches on topics such as the Anthropocene and desertification.
ESSM	655	1	Remote Sensing of the Environment	The main objective of this course is to introduce students to the principles and techniques necessary for applying remote sensing to diverse issues in natural resources. The course emphasizes a hands-on learning environment with theoretical and conceptual foundations in both aerial and satellite remote sensing. Primary focus will be placed on digital image interpretation, analysis, and processing for a broad range of applications. The course, through the class project, discussions, student presentations, and lab exercises, is based on inquiry-type activities, such as discovery, case studies, modelbuilding, design, research, creating, and environmental problem-solving with remote sensing techniques.

GEOL	640	1	Geochemistry of Natural Fresh Waters	Geochemistry of aqueous solutions; silicate and carbonate equilibria and mineral stability; rock weathering and redox reactions and their controls on fresh waters; natural and anthropogenic factors affecting major, minor, and trace elements in fresh waters; evaluation of fresh water composition; application of water-quality measurements to quantitative hydrology.
GEOL	658	1	Earth Systems Through Deep Time	Graduates will be able to explain (1) the Earth's energy balance and how it is linked to ocean and atmospheric circulation and life; (2) what factors control climate, ocean and atmospheric chemistry, and the distribution of terrestrial and marine flora and fauna; (3) the theory and application of proxies for climate, ocean circulation and chemistry, and productivity; (4) the nature of teleconnections between climate, Earth's surface chemistry, tectonics, and life; (5) major biotic, climate, geochemical, and tectonic events in Earth system history and their causes and consequences.
HIST	618	1	Readings in Gender and Sexuality in History	This readings course is a graduate level introduction to current research about how gender and sexuality operate both as categories of identity and as analytical tools, and how they can help us ask broader questions about historical processes. We will consider how scholars have employed gender as a category of analysis to explore how different societies have historically defined and preserved (economically, politically, culturally, intellectually, and socially) the categories of 'man' and 'woman', how language shapes power relationships—in both personal and institutional contexts—and how other vectors of identity (like race, class, and nation) are historically intertwined with questions of gender and sexuality. We will also examine how scholars have investigated how sex (as a biological category) and sexuality (as a set of human practices) are historically constructed, often drawing on the interdisciplinary theories/methods of queer and sexuality studies.
HIST	631	1	Readings in U.S. History to 1877	This readings seminar is designed to make students conversant with major methodological, theoretical, and interpretive issues in the historiography of the United States to 1877. The course is organized chronologically and thematically, and looks at a variety of approaches to early American history. Key avenues for exploration will include Native American societies pre-contact, the Atlantic world paradigm, empire and expansionism, revolutions and nationalism, slavery and race-based systems of inequality, as well as the origins and impacts of the Civil War. In addition, the class will place heavy emphasis on the transnational or global context within which all of these events unfolded. This course focuses on secondary works, and, in addition to providing graduate students with solid preparation for their comprehensive exams, should also enable them to better teach their own surveys on the subject.
HIST	674	1	Readings in Chicano/Latino History	This course will cover the major works, ideas, and historiographical trends in Chicano/Latino history in the twentieth century. We will explore a variety of thematic, theoretical, and methodological approaches currently alive in American history, cultural studies, and ethnic studies as we interrogate the ways in which immigration, religion, labor, race/ethnicity, gender/sexuality, sports, resistance and adaptation, and popular culture have served as critical arenas in (re)shaping Chicano/Latino history. Particular attention will be paid to how Mexican Americans, Puerto Ricans, Cubans, Dominicans, and other Latino groups have experienced racialization, how they have interacted with one another across place, space, and time, and how we might begin to craft a Latina/o history narrative that builds on the strong historiographical traditions of Chicana/o, Puerto Rican, and Cuban history in the United States.
HLTH	642	3	Health Education Ethics	This course introduces you to basic concepts in ethics as they apply to the practice of Health Education. These concepts will prepare you to reflect about the ethics of your practice, and to articulate well-reasoned responses to the many ethical dilemmas faced by health education practitioners. These basic concepts and their application will help you establish a foundation for judging what are the most appropriate, just, or morally right actions, regarding issues in your professional practice. The course will also help you become better able to identify current health education topics that have ethical implications or dimensions and require careful consideration and approach. An ethics approach to health education practice is especially important because education about health issues is a moral enterprise, given that it deals with people's decisions about quality of life, and lifestyles. In sum, this course offers you an articulated ethics framework in which to place your practice and your theory (the reflection about your practice). Ultimately, such framework will contribute to increased fairness and justice in health education practice, as well as to the absence of unjust disparities.
ICPE	615	1	Smart Grid Fundamentals	Class includes a unit over renewable energy.



ICPE	619	1	Numerical Analysis for Chemical Engineers	This course will introduce students to the basics of nanomaterials in energy storage applications. Initially, students will learn the basics of energy storage applications and operations, followed by an overview of the unique structure, properties, and intermolecular interactions of nanomaterials in electrodes and electrolytes. The course will then cover nanomaterials synthesis (or isolation from bulk materials) and purification techniques; students will learn about the current processing challenges related to the scalable production of nanomaterials and associated quantity-quality tradeoffs. Particular emphasis will be directed toward how synthesis, doping, chemical functionalization, and liquid-phase processing can control the structure and surface chemistry of nanomaterial-based electrodes in batteries and supercapacitors. Students will learn the state-of-the-art techniques for how processing can enable both top-down templating of nanostructured materials as well as bottom-up self-assembly of films and porous structures. The multifunctional nature of these nanostructured materials will also be covered to show how energy storage may be coupled with structural or sensing needs. The final portion of the course will provide an overview of current research directions in regard to meet industrial energy needs in a manner that addresses scalability, environmental, and health concerns; this portion is particularly critical as industrial interest in nanomaterials increases and regulatory agencies form policies for nanomaterial production, handling, and disposal.
LAND	601	1	Landscape Architectural Design Theory and Application I	This is the first design studio in the Master of Landscape Architecture curriculum's design studio sequence. Our curriculum emphasizes evidence-based design approaches, and multidisciplinary learning experiences. This course introduces students to the diverse theories, principles, and tools of landscape architectural design. Through a series of reading assignments, design exercises, and a multi-disciplinary semester project, students will gain the knowledge and skills to think both creatively and logically. This requires building the ability to transform abstract ideas into concrete forms that respond to the larger context. Students are expected to think sensitively and responsibly about the various forces of the environment, including psychological, social, political, ecological factors. Acquisition of spatial thinking skills, including the understanding of spatial scales and dimensions, is a key learning objective in this class. Equally important is the development of visual, oral and written communication skills to effectively communicate design ideas to peers, faculty and project stakeholders. Students are expected to carefully observe and critically think about people's interactions with the environment. Students will begin to learn the power of designed environments in shaping people's behavior, perception, health, and well-being, influencing every aspect of daily life. Throughout the course, students are expected to further their understanding of the landscape architecture profession, through readings, case studies, discussions of contemporary urban issues, field trips, etc., many of which will require the student initiate on their own.
LAND	620	1	Open Space and Community Development I (	Land 620 is the advanced graduate design studio course for MLA students prior to the required final professional project. It is organized to develop an understanding of the various systems that must be integrated through land planning and design. Students are expected to apply this understanding through planning and design of projects of various scales, including project programming, site selection, master planning, site design and detail design.
LAND	645	1	Practice Diversity in Landscape Architecture	The course will explore the diversity of practice opportunities within the profession of landscape architecture, individual roles within those areas of practice, and the skills required to function successfully within the complexity of the practice milieu. The direction of the course will focus on a few broad questions: What is landscape architecture? How is landscape architecture practiced in the United States as a response to the needs of clients and users, and the opportunities and limitations of the environment? What are the various scales and types of project work that landscape architects engage in? What are the various traditional and non-traditional avenues available to landscape architects in practice? Are there events/trends that will marginalize or strengthen landscape architecture in the future or as other disciplinary practices evolve? The course explores the diversity of landscape architectural practice from the perspective of the land and the people. It defines traditional western practice and seeks a global multi-cultural understanding, examining evolving and expanding opportunities for future landscape architects. It is intended to provide an overview of the field and contemporary thought among practitioners and teaching and research faculty, and is focused on breadth rather than depth of specific knowledge.
LING	602	1	Topics in Sociolinguistics	The topic this semester is Sociolinguistics: the study of the relationship between language and society. We will survey current topics, theories, and methodologies in sociolinguistics by examining spoken and written language within a variety of contexts, including everyday interaction, literature, the media, popular culture, education, and the courtroom. Major topics include language variation at all levels of linguistic structure (from sound to discourse); the relationship between language variation and social aspects (race, ethnicity, class, gender); regional dialects, social dialects, and attitudes towards them; language contact (multilingualism, language death, codeswitching, pidgins and creoles); linguistic politeness and intercultural communication; and the relation between language and ideology. Major theoretical and methodological approaches include dialectology, language variation and change, interactional sociolinguistics, conversation analysis, language attitudes, language policy and planning, and corpus sociolinguistics.

NUTR	684	1	Professional Internship	Nutrition care practices in clinical, community, and administrative settings. Provide medical nutrition therapy to diverse patient populations.
OCNG	640	1	Chemical Oceanography	Chemical composition and properties of seawater, evaluation of salinity, pH, excess base and carbon dioxide in sea. Marine nutrients, oxygen and other dissolved gases, organic constituents.
OCNG	655	1	Experimental Design and Analysis in Oceanography	Elements of experimental design in oceanography; logistics of data collection, critical evaluation of field sampling strategies and formulating field studies suitable for hypothesis-based inquiries using the standard linear regression model, the analysis of variance, and principal component analysis. Homework assignments include topics such as water quality and climate.
PHEO	605	1	Chemical Hazard Exposure	This course presents methods for sampling hazardous chemicals in various environmental media, planning the sample collection, and analytical process to ensure that data quality is sufficient to meet project objectives. Students will become familiar with the Data Quality Objectives, QAPP and QA/QC protocols including data validation. Topics in environmental and industrial hazards and hygiene.
PHPM	604	1	Population and Public Health for Health Professionals	This course introduces the student to the field of public health and its concentration areas; examines how the federal, state and local health care and public health system/infrastructure has evolved; and raises awareness of the need for cross-concentration approaches to address public health issues. This course highlights illustrative public health problems, diseases, and risk factors and the role of public health in preventing/alleviating same; reviews the core functions of public health; and examines the inputs, throughputs and outputs of the public health system. Has a unit over sustainability.
RDNG	612	2	Teaching Reading through Children's Literature	Critical selection and evaluation of various children's literature genres; comparative studies of children's literature; development, implementation and evaluation of research in children's literature and literacy; integration of reading and response theory into the study of literature. Has lectures and units over catering to all races and ethnicities, as well as promoting diversity.
SOCI	621	1	Social Psychology	Social psychology is a unique discipline that crosses the boundary between psychology and sociology. While psychologists focus primarily on the mind and the inner lives of individuals, sociologists are concerned with one's social life and features of society. Social psychologists argue that it is essential to examine how the individual and society interact with one another. Social psychologists study the dynamics of the ties between individuals and how social structure both constrains and enables those ties. In this course, we emphasize the relationship between the individual and social structure, the relationship between the individual and her immediate social context, as well as the relationships between individuals. Includes a special lecture on race and ethnicity.
SOCI	635	1	Sociology of Complex Organizations	Comparative structures; contingency models; micro- and macro-theoretical perspectives. Has a whole unit on gender and organizations, including topics such as race and feminism.
SPMT	623	2	Intercollegiate Athletics	Throughout this course we will examine the National Collegiate Athletic Association (NCAA) and intercollegiate athletics. Through the use of various course materials, you will understand historical, legal, financial, educational, and diversity related issues which pertain to intercollegiate athletics. There will be contributions ranging from theoretical perspectives to the study of college sport, to include the sociocultural (race, gender, and class) interactions and their relationships to the NCAA, intercollegiate sport, and higher education.
SPMT	682	4	Seminar-Sport History	This course is a survey of the history of modern sport and sports development over time. As you participate in this course you will be given the opportunity to analyze the relationship between sport and society. You will, also, be able to examine central problems revolving around sport from a variety of viewpoints. Includes topics over race and gender in sports.
WFSC	613	1	Animal Ecology	Concepts of animal ecology which emerge at various levels or organization; the ecosystem, the community, the population and the individual; laboratories emphasis on the quantitative analysis of field data and the simulation of population dynamics.
WGST	661	1	Sociology of Gender	This seminar deals with a persistent and complex set of questions about how we can best understand gender, that is, what are the best approaches to theorize, conceptualize, define, operationalize and analyze the social phenomenon of gender. The course has a twofold agenda. First, it gives a theoretical overview of various approaches to gender. We will discuss the major theories concerned with the ways in which we 'become gendered,' and will evaluate naturalist, psychoanalytic, materialist and post-structuralist accounts. Secondly, we will learn how we can use and advance these theoretical approaches in empirical research in the process of writing a grant proposal. Our goal for this course is to develop a critical and sophisticated understanding of gender. You should learn to be able to identify the strengths and weaknesses in various theoretical approaches to gender. At the end of this course, you should be able to develop a theoretically- and empirically- informed understanding of gender relations that will advance your own research agenda.
WGST	680	1	Theories of Gender	Theories of gender, sexualities, feminism, embodiment, and difference with particular focus on their relationship to literary and cultural studies; emphasis on contemporary theoretical positions, discourses, and debates.

WGST	689	1	Gender and the Horror Genre	This seminar will allow us to explore and analyze the ways in which a single literary and/or film genre resonates with gendered perspectives and sexual subjectivity. We will focus on the horror film as it has been used to allegorize struggles related to male and female subjectivity and hetero and homosexual desire, asking ourselves if horror allows people, at a pop-cultural level, to address the deepest and most profound fears and fantasies associated with their gender concerns and sexual identities.
WGST	689	1	Rhetoric & Public Culture: Gender & Black Resistance from Abolition to Lemonade	This course does so by examining the rhetorics of and about black resistance (broadly) and black freedom movements (specifically) in the United States from the early nineteenth century onward. The course is designed to acquaint students with histories and analyses of racial oppression and traditions of black protest with concentrated efforts to examine intersections of racial and sexual hierarchies and to recover women's/queer rhetorics. The course seeks to enable critical and historical dexterity as readings will traverse a number of time periods and engage a variety of "texts" (e.g., museums, speeches, images, performances, manifestoes, protests, etc.), offering students less of an exhaustive survey and more of a series of in-depth portraits of resistance and the contexts through which protests and movements emerge over time. To be clear, although contemporary forms of resistance are exigencies for this course, the bulk of course discussions and readings will ask students to engage a selection of nineteenth and twentieth century rhetorical/mediated/materialized texts and contexts.

## Spring 2017 Sustainability Undergraduate Courses

	Number
Total Courses	3,897
Sustainability Courses	345
Courses Including Sustainability	348

SUBJECT	COURSE	# of Sections	Name	Course Description
AFST	300	1	Blacks in the United States, 1607-1877	Blacks in the United States from the colonial period to 1877; the slave trade, slavery, free blacks and the impact of the Civil War and Reconstruction on blacks. In depth examination of the history of racism in the United States.
AFST	301	1	Blacks in the United States, 1877-Present	The course's scope is the century following the end of Reconstruction to the present; its focus, the African Americans, both former slaves and freedmen, who attempted to maintain their dignity and to improve their lives and the lives of their families after more than two centuries of bondage and racial discrimination. Continued in-depth examination of the history of racism in the United States.
AFST	323	1	Sociology of African Americans	Major elements of the Afro-American subculture in relation to white American society and its major social institutions.
AFST	325	1	Understanding Latin@ World through Afro-Latin@ Experience in Latin-America and the U.S.A, 19th Century to Present.	This cross-listing course is an interdisciplinary endeavor, designed to examine the literary, cultural, historical, political, and socio- economic developments of people from African descents within Latin American context including the United States of America, from the 19th C. to present. For centuries and under the umbrella of "racial democracy" and racism, Latin@ identity has been increasingly "purified" from their blackness, cutting in the process a vital part of what it means to be Latin@ or Hispanic. This course will shed light on the life, participation and contribution of Afro-Latin@s to the destiny of Latin America as well as the (de)complexity of Afro-Hispanic identity within the broader Hispanic community in the US.
AFST	481	1	Seminar	Comparative studies of slave societies in the modern world; history and analysis of African American feminism; comparative analyses of the social, political, and economic condition of African Americans and other African peoples of the diaspora.
AGEC	350	1	Environmental and Natural Resource Economics	Inspection of issues such as environmental degradation, population growth, recycling, water use and depletion, natural habitat protection, water and air pollution, acid deposition, fishery management, and global warming using economically derived principles and tools.
ALEC	450	1	Global Social Justice Issues in Agriculture	An in-depth evaluation of global social justice issues and leadership skills necessary to effectively solve and manage issues in agricultural development; topics include awareness, knowledge and understanding of teaching, research and service opportunities for those seeking careers in global social justice and agricultural leadership.
ALED	223	1	Practicing Diverse Leadership and Cultural Exploration	Social theories and historical perspectives of leadership, particularly in terms of class, gender, race, ethnicity, and nationality; a multidisciplinary approach to the study of leadership with a special emphasis on culture through experiential learning.
ALED	485	3	Directed Studies	The College of Agriculture and Life Sciences Strategic Plan outlines a goal to "Provide experiential learning opportunities that foster critical thinking, complex problem solving, strong communication skills, community interaction, and social/global awareness" using strategies that "Expand out-of classroom learning experiences (e.g. study abroad, service-learning, community outreach, internships)" and "Foster real-world interdisciplinary problem solving through service learning and community-based projects" (COALS, 2010, p. 11). This course will provide students opportunities to gain first-hand experiences designing personal learning projects and working in another culture. Rural communities near the TAMU Soltis Center offer unique opportunities to compare cultural aspects between Costa Rica and the United States. Students will practice communication skills and broaden their global/intercultural perspectives, which cannot be replicated on the A&M Campus. This course dicusses topics such as "Sustainability of Native Peoples' Heritage" and "Natural Resource Conservation."

ALED	489	1	Social Capital and Leadership Development	As college campuses continue to be more diverse it is imperative, students understand the interconnectedness of gender and race as it influence personal and professional interactions. This course will focus on leadership in modern society as seen through the lens of race and gender. This course will utilize practical application of knowledge from class to develop and implement a community wide forum, which will address research findings. Students will have the opportunity to obtain leadership skills from lecture and practical application through completion of various projects and activities. An integral part of this course includes attending a leadership conference that focuses on the global impact of leaders in the civil rights movement and other social justice movements.
ALED	422	1	Cultural Pluralism in Agriculture	Selected topics on the diversity of human resources in agriculture; emphasis on working in a multicultural society and developing a sensitivity toward different cultures; explores the interrelationships between the contributions of diverse individuals and the state, nation and global success of agriculture.
ANTH	205	10	Peoples and Cultures of the World	The course provides students with an introduction to ethnographic inquiry and a survey of the wide diversity of human cultures. It examines dimensions by which human cultures vary, including economy and subsistence, family formation, religion, language, political structure, gender relationships, and many more. Students explore a number of different populations around the world, learning their unique customs and ways of life. These explorations and related discussions demonstrate how an understanding of culture, history, environment, colonialism, and Global Problems provide reliable anthropological perspectives about why the world is the way it is today, in particular, why there continues to be so much socioeconomic inequality.
ANTH	210	4	Social and Cultural Anthropology	This course offers an introduction to anthropological theories and ethnographic interpretations of culture and society. It aims to provide broad exposure to the uniquely human science of anthropology while emphasizing the diversity of culture throughout humankind. Topics such as culture, political systems, religion, sexuality, gender, and economics will be explored and analyzed for their diversity and similarities, using the tenets of holism and comparison. At the end of the course, students should be able to describe the discipline of anthropology and the ethnographic method; evaluate kinship, ritual, religion, politics, race, ethnicity, and history as cultural concepts; and articulate the diversity of culture that characterizes humankind with reference to ethnographic cases studied in class.
ANTH	301	1	Indians of North America	Native North American cultures from the Arctic to Mesoamerica; their origins, cultures prior to extensive acculturation and their contemporary situations
ANTH	426	1	Anthropology of Food and Nutrition	Anthropological study of human foodways and their nutritional consequences; how environmental, biological and cultural factors interact to produce patterns of food intake, and the effects of such patterns on health, growth and fertility; examples drawn primarily from non-Western societies. Students will get a grounding in the history of anthropological theory and thought on the place of food in human societies and cultures. We will specifically examine how anthropology has approached food production and consumption, commodities in the past and present, food security, food as a human rights issue, industrial agriculture and agribusiness, and more.
ANTH	427	1	Human Variation	Biological basis of variation in the physical features of modern humans; details of anatomical and physiological differences of living populations to understand their adaptive and historical significance; history of human variation studies rooted in the historical notion of "race."
ANTH	489	2	People and Cultures of Latin America	This course will introduce students to the geocultural region of Latin America, its history, cultures and peoples. While Latin America is often viewed as a monolithic block, it is in fact an extremely diverse tapestry of peoples, held together by the threads of shared history, culture and geography. Furthermore, Latin America is not an island, but a cultural region that is inseparably tied the rest of the world, its identity having been shaped by a history of European colonization, and its presence and influence growing throughout the world. Finally, embedded within Latin America there exist hundreds of indigenous nations with varying levels of integration with state-level cultures and economies.
ARCH	206	6	Architectural Design 2	There will be two main semester projects: 1) Ocean Resort, the design of a futuristic eco-tourism destination, utilizing recycled materials (mainly plastics) that are currently causing widespread problems in marine environments; and 2) Dialysis Center, a small dialysis clinic to provide ongoing treatment of people with chronic kidney disorders, emphasizing conventional building materials and assemblies.

ARCH	212	1	Social and Behavioral Factors in Design	Social and behavioral factors in the built and natural environment; environmental perception and spatial cognition; social-environmental processes such as privacy and crowding; setting-oriented discussion on residences, education, and the workplace; the psychology of nature and natural resource management; social design and social science contribution to architectural design.
ARCH	213	1	Sustainable Architecture	A comprehensive introduction to sustainability concepts, techniques and applications at all levels of the built environment, history of contemporary development of sustainable architecture from 1960 to the present; design strategies, environmental technologies and social factors for reducing building energy needs and carbon foot prints; global applications of sustainable approaches.
ARCH	406	4	Architectural Design 5	A comprehensive design studio focused on the integration of design theory with functionally sustainable environmental and structural systems; consideration of a project from site analysis and programming through design detailing.
ARCH	421	1	Energy and Sustainable Architecture	Understanding the various design decisions impacting sustainability and energy efficiency; includes participation in an "academic" LEED-NC rating project; interdisciplinary team approach with a design studio architect to perform the LEED-NC rating on the architect's building; application of reference material, standards, and USGBC material.
ARCH	458	1	Cultural and Ethical Considerations for Global Practice	Issues and relationships within the cultural, business, legal and political environments of global practice; differences in the construction contract, bidding and various forms of construction.
ATMO	463	1	Air Pollution Meteorology	Atmospheric pollution sources, transport, sinks, and effects; monitoring of air pollutant emissions and of ambient concentrations; use of models to simulate air pollution; regulation of emissions and ambient concentrations; greenhouse gas emissions regulations.
BAEN	468	1	Soil and Water Conservation Engineering	The objective of this course is to prepare students to develop engineering solutions to water quantity and quality issues. Topics include: uniform channel flow, open channel design, gradually and rapidly varied flow, hydraulics of structures, channel routing, fluvial geomorphology and ecological engineering
BAEN	485	1	Renewable Energy Conversions	This course deals with the engineering and technical aspects of quantifying, designing and evaluating the suitability of several alternative and renewable energy conversion systems utilizing biomass, solar, wind, hydro power and others. This course will open new insights into the vast resources that future engineers and those in related disciplines can harness to augment diminishing supplies of man's non-renewable energy and power source. At the end of the course, the student should be able to identify the different sources of sustainable energy, fuel and power, know their applications, recognize their limitations, and demonstrate the capability to manage and design the energy and power systems.
BESC	201	2	Introduction to Bioenvironmental Sciences	An introduction to the biological components of environmental sciences, with emphasis on the impact of the world's population on global resources; lectures by research scientists reflecting their disciplinary perspective in relevant areas.
BESC	204	1	Molds & Mushrooms: The Impact of Fungi on Society & Environment	Introduction to the fungi and the impact these organisms have on society and the environment; topics discussed will include: life cycles of fungi; classification schemes, pathogens of plants, animals and humans, fungi in food production; toxic fungi and the law, and others. You will be able to explain the effect of specific fungal metabolites on the environment and society.
BESC	403	1	Sampling & Environmental Monitoring	Introduction to environmental sampling and methodology; strategies and analyses of sampling data; overview of current applications of sampling and monitoring in the environmental sciences; emphasis on practical aspects of sampling from air, soil and water; detection and quantification of microbial and chemical unknowns in environmental media.
BESC	481	4	Seminar	Capstone course for topics in bioenvironmental sciences; critical analysis of environmental issues through written themes and presentations. The focus of this course will be sustainable development and environmental issues in China and Capstone course for topics in bioenvironmental sciences; critical analysis of environmental issues through written themes and presentations.
BUSN	302	15	Ethics & Freedom	In Business Ethics and the Fight for Freedom, you will learn how to put your business knowledge to use and help end slavery in our modern world. This class will provide you the tools to be a more informed buyer and future business leader. People around the world are awakening to the issue of slavery and businesses are taking notice. As business students, we are the connecting link. This is the time to learn how to be more than a conscious consumer. It is time to become an active abolitionist by acquiring the skills necessary to help your corporation or personal business make a difference in the fight for freedom.

CARC	311	2	Field Studies in Design Innovation & Communication	Design innovation in international and domestic environments away from the Texas A&M University campus; emphasis on the cultural, social, economic, geographical, climatic and technological factors influencing design solutions for human needs.
CHEM	483	1	Green Chemistry	: Green chemistry differs from previous approaches to many environmental issues. Rather than using regulatory restrictions, it unleashes the creativity and innovation of our scientists and engineers in designing and discovering the next generation of chemicals and materials so that they provide increased performance and increased value while meeting all goals to protect and enhance human health and the environment. Students will develop: 1) a general understanding of principles of green chemistry and green engineering; 2) knowledge of catalytic principles related to organometallic catalysis and electrocatalysis; 3) appreciation for the scale and challenges associated with the global chemical and energy industry.
COMM	315	2	Interpersonal Communication	Speech interaction in person-to-person settings; concepts of perception, attraction, self-disclosure, listening, and conflict management through communication; speech interaction patterns and stages in the development of interpersonal communication. This course encourages different perspectives related to such factors as gender, race, nationality, ethnicity, sexual orientation, religion, and other relevant cultural identities. The class seeks to foster understanding and inclusiveness related to such diverse perspectives and ways of communicating.
COMM	407	1	Women, Minorities, and Mass Media	This course will explore social identity in the context of popular culture and mass media. Drawing on literature from Communication, Media Studies, Women's Studies, Africana Studies, sociology, and psychology, we will learn about theories and case studies that help understand how the media are sites for constant negotiation and construction of identities such as masculinity, femininity, blackness, and "otherness." The term "minorities" will be interpreted broadly so that we can explore power and privilege in a variety of contexts such as gender, race, ethnicity, sexuality, class, age, nationality, physical/mental disability, and religion.
COMM	431	1	Rhetoric of Social Movements	Survey of events and rhetorical documents of major U.S. social movements, including abolitionist, labor, socialist, women's rights, civil rights, pro-life, gay and lesbian, and student movements.
COMM	460	1	Communication & Contemporary Issues: Interracial Couples	Rhetorical and other critical approaches to study how communication practices influence the construction of social issues. This class will explore the history of black-white romantic relationships in the US, the racial identity of each of the partners, and communication within the dyad. In addition, we will also have "Race-in-the-News" days where we explore issues of race in current events.
COMM	471	1	Media, Health and Medicine	Analysis and evaluation of representations of health in media; examination of gender, class and race as they intersect with health issues.
CVEN	301	2	Environmental Engineering	Water quality; material balances; chemical, physical and biological processes; water quality modeling; water and wastewater treatment; air quality; solid and hazardous waste management.
CVEN	339	1	Water Resources Engineering	Quantitative hydrology, precipitation, hydrograph analysis, reservoir and stream routing; groundwater, Darcy equation, well equation, well design; probability concepts in design; water law; dams; reservoirs; spillways; open channel and pipe network hydraulics; pumps; urban stormwater drainage; flood damage mitigation.
ECON	312	1	Poverty, Inequality & Social Policy	Determinants of inequality in market earnings; philosophical and economic reasons for redistributing income; issues in measurement of inequality and poverty; examination of major social insurance and welfare programs and how they affect income distribution and performance of the economy.
ECON	318	1	The Economics of Gender & Race	Theories and evidence on gender and race differences in labor market outcomes; labor supply and the role of family formation; the effect of human capital and discrimination on earnings; analysis of government policies; international comparisons.
ECON	330	3	Economic Development	A study of the less developed world; economic problems and solutions.
ECON	465	2	Contemporary Economic Issues	This course teaches students the application of microeconomic and macroeconomic analyses to evaluate contemporary economic issues. Addresses environmental, energy, environmental externalities, and outsourcing in relation to the economy.
EHRD	408	2	Globalization & Diversity in the Workplace	Assist learners in the identification and understanding of globalization and diversity issues in learning, work and community; exploration of current issues, theories, trends and policy issues.
EHRD	485	2	Directed Studies	A significant part of this process includes increasing students' capacity to explore how their own personal values, beliefs, and behaviors may affect their ability to interact with people from diverse backgrounds. The outcomes will require a critical and sometimes uncomfortable assessment of "self."

ENDS	101	5	Design Process	Fundamental design processes, issues and theories relevant to design resolution and the creation of new ideas; creative thought processes from the formation of ideas through incubation to final product and future impact on the physical environment and society.
ENGL	202	1	Environmental Literature	Writers have long been interested in exploring the relationships between human beings and nature. However, not until the 1970s did the literary field that we now call "environmental literature" or "ecocriticism" begin to take shape. This class will introduce students to the field of modern environmental literature and theory. We will read fiction, poetry, and nonfiction, and also view a film that examine from different perspectives the complex relationship between humans and their built as well as natural environments. The readings and class discussions will explore such pressing issues as nature/culture, global climate change, sustainability, environmental justice, food production, preservation & conservation, and animal rights.
ENGL	362	2	Chicano/a Literature	This course will survey some of the significant literary texts produced by Mexican Americans in the twentieth century. Through the close reading of fiction, poetry, essays, and historical documents, we will become familiar with the history of Mexican American Literature, and we will develop an understanding of the experiences and aesthetic expression of Chicano/as in the U.S. Some of the historical sites and themes around which we will concentrate our study include the U.S.-Mexico War of 1848, the Chicano/a Movement, land dispossession and immigration, as well as issues of race, gender, sexuality and class. We will explore how Mexican Americans' particular social location has influenced their literary production, and how Chicano/as, in turn, have contributed to American literature.
ENGL	374	3	Women Writers	History of literature by women in English; emphasis on continuity of ideas and on literary contributions; study of a variety of genres with particular attention to the significance of gender in the racial, social, sexual and cultural contexts of women writing in English.
ENGR	482	8	Ethics & Engineering	Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability and conflicts of interest; emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.
ENGR	491	5	AggieE-Challenge Program	This course is designed to provide undergraduate students opportunities to address significant interdisciplinary challenges on elements of some of the most important engineering challenges. They should learn and apply engineering concepts, principles, and approaches in multidisciplinary contexts and develop their professional knowledge and skills. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability. An ability to function on multi-disciplinary teams. An ability to communicate effectively.
ENTO	210	1	Global Public Health Entomology	Impacts of insects and insect-borne diseases on public health and well-being around the globe; insect biology, bloodfeeding, and transmission of human diseases; role of insect borne diseases on human history, socio-economic development, and public health infrastructure.
ENTO	322	2	Insects & Human Society	Emphasis on the role insects have played in the development of human cultures; aspects include health, food production and storage, art, music and architecture; overview of historic, present day, and future roles insects will have on environmental movements (green societies), and in underdeveloped, developing and developed societies.
ENTO	485	1	Study Abroad Program in Dominica	Learn about culture, geography, history, flora, fauna, and ecology of the Caribbean region and of the island of Dominica in particular.
ENTO	489	1	Agriculture, Society, & The Environment	Surveys the origins and evolution of agriculture as context for a critical review of contemporary agriculture, including environmental and human health issues surrounding agriculture in developing countries, and relying on case studies from Latin America and the fields of agriculture, agricultural development, and pest management.
ESSM	300	1	Field Studies in Forest Systems	A field-oriented class focused on forest ecosystem science and management. Students will problemsolve management questions through data collection and team-based research, with field and classroom exercises used to investigate the relationships between landowner objectives, mensuration, silviculture, ecology, soils, and regeneration-focused harvesting systems. In addition, this 'summer camp' is expected to foster the development of student-faculty relationships, and enhance the professional knowledge and skills of the students. Topics in this class also include endangered species and sustainable forest management.



ESSM	301	1	Wildland Watershed Management	Elements of watershed management and principles and practices of wildland management for protection, maintenance and improvement of water resource values.
ESSM	307	1	Forest Protection: Forest Entomology	The Forest Entomology component of Forest Protection includes consideration of the roles that insects play in forest landscapes, specialized forestry settings (such as seed orchards and nurseries), and urban environments. Both the positive and negative effects that insects have on management values are examined. Although most insects are beneficial, the activities of some species disrupt our planned uses of forests and urban environments and are considered pests. The important pest species are examined in the context of their natural history, the type of damage they cause, and the ways and means used to manage their impact.
ESSM	308	1	Fundamentals of Environmental Decision-Making	Introduction to environmental issues in natural resources management; fundamental principles and methods for understanding biosocial interdependencies in complex environmental issues; use of computer-aided group decision-making techniques to develop cooperative strategies for resolving local or global environmental issues.
ESSM	310	1	Forest Tree Improvement and Regeneration	Genetic improvement or manipulation of forest trees through breeding or transformation. Regeneration of forests including reproduction, nursery production, stand establishment, natural regeneration, and problems affecting regeneration. One of the major course objectives is sustainable management of ecosystem goods and services.
ESSM	311	1	Biochemistry & Global Change	Framework for understanding biogeochemical cycles, their significance at both global and ecosystem levels of organization, and their contemporary relevance to ecosystem science and management.
ESSM	320	1	Ecosystem Restoration & Management	A basic conceptual framework for restoration ecology and ecological restoration; major principles of ecology related to practical problems confronting humankind, such as, environmental pollution and degradation, exotic species invasions, land use and management trade-offs and consequences; importance of biological diversity.
ESSM	405	1	Forest Resource Assessment and Management	Integration of biophysical, economic and social factors in forest resource analysis, management planning and decision making; applications of interdisciplinary knowledge and multiple-use principles to practical forest management problems.
ESSM	430	1	Advanced Restoration Ecology	A dynamic discipline relying heavily on the fundamentals of ecology; practice translating and communicating key ecological concepts to advanced case studies in ecological restoration; enhance skills for professional applications.
GEOG	201	3	Introduction to Human Geography	A survey of the major systems of man-land relations of the world and their dissimilar developments; the processes of innovation, diffusion, and adaptation stressed with regard to changing relationships between people and their environment.
GEOG	202	4	Geography of the Global Village	Survey of world regions; globalization; environmental problems at multiple scales; human-environment interactions; cultural coherence and diversity; population and settlement; geopolitics; social and economic development; place identification.
GEOG	203	4	Planet Earth	The ultimate goal of this course is to provide each student with a better appreciation and understanding of planet earth. This course takes an earth systems approach to studying the planet we inhabit. All of the Earth's spheres – the atmosphere (weather & climate), hydrosphere (water in all its forms), lithosphere (earth's surface), and biosphere (living organisms (plants and animals)) – are examined in detail. The lectures and the labs explore the complex interactions between these spheres as well as how they affect (and are affected by) humans.
GEOG	205	1	Environmental Change	Systems perspective on important attributes, elements, and connections within earth's physical environment; dynamic nature of environment at multiple spatial and temporal scales.
GEOG	304	1	Economic Geography	Geography 304 is an introductory course in the field of economic geography. It is designed to provide students with a solid foundation in the concepts, theories and approaches on which the field of economic geography is based. This includes the location of economic activities over the earth, the distribution of agriculture, manufacturing, tertiary activities and transportation and the economic growth of areas. This disciplinary overview will be presented in the context of the contemporary world economy.
GEOG	323	1	Geography of Latin America	Physical and cultural characteristics of Latin America; physical landscape, cultural succession and the present cultural landscape; details on sub-regions. Environmental and social justice issues are covered.
GEOG	330	1	Resources and the Environment	Changing demand for land and sea resources; international conditions of population growth, resource depletion and geopolitical control; resource perceptions and decision-making.

GEOG	335	1	Patterns and Processes in Biogeography	Biogeography is the study of the distribution of organisms across the earth. The basis of biogeography is evolution and ecology; evolutionary patterns determine how species arise and diverge across a landscape and ecological forces determine where these species can live and how they interact. In this course, we will examine the environmental, spatial and historical controls on the distribution of species. We will investigate the processes that have led to the current distributional patterns and the common rules that have shaped the history of life on the planet. We will begin the course examining processes that define the origins of species, moving into broader geographic and historical community patterns in the second half of the course. This course also discusses Conservation Biology.
GEOG	360	1	Natural Hazards	Introduction to the types and causes of natural events that pose risk to society; an examination of prevailing concepts and theories of human response and vulnerability; characteristics of natural events; natural hazard paradigms; case studies
GEOG	400	1	Desert Geomorphology	This course is about the nature, origin, and the physical/environmental evolution of deserts. As an academician who has studied deserts for the past thirty-five years, it is my hope to pass on to you the unique geology, geomorphology, biophysical environment, and the major environmental issues of the global arid lands. This course also discusses climate change and other environmental problems such as desertification.
GEOG	401	1	Political Geography	The political process at a variety of geographic scales: international, intranational and urban; origins of territorial organization and conflicts over access to and use of space and its resources.
GEOG	406	1	Geographic Perspectives on Urban Issues	This course explores key issues and problems facing cities today, including climate change, social conflict, and economic crisis. It also explores the plans and solutions that people have developed to address these problems, both at the level of grassroots community activism and official government policy. We will focus primarily on cities in the U.S. and processes of urbanization that have emerged since the early 20th century. The course will be conducted as an intermediate/advanced seminar that assumes some previous knowledge of urban studies and cultural geography.
GEOL	420	6	Environmenttal Geology	Geologic concepts of the nature of geologic environments and the dynamics of geologic processes needed to characterize and quantify human interactions with specific geologic systems including aquifers, watershed, coastlines and wetlands; specific techniques, including geophysical and geochemical techniques, field mapping, geographical information systems and remote sensing used to monitor human-geosphere interactions.
GEOS	105	1	Introduction to Environmental Geosciences	Key concepts and generalizations of global environmental issues within an Earth systems science framework including climate change, air pollution, land and coastal degradation, water resources and pollution, and habitat loss; environmental ethics, economics and politics; environmental issues in Texas.
GEOS	210	1	Climate Change	Examination of the science of climate change; how greenhouse gases warm the planet; scientific evidence that the earth is warming; scientific evidence that humans are causing this warming; what warming we can expect in the future and impacts of that warming.
GEOS	405	2	Environmental Geosciences	Dynamics and human interactions with near-surface environments including land, atmosphere and oceans through problem-based learning; interdisciplinary environmental problem topic, for example, water quality, urbanization, coastal development, or environmental pollution; geoscience techniques used for monitoring human-geosphere interaction.
GEOS	444	1	The Science and Politics of Global Climate Change	Examination of the policy and scientific debate over climate change; how scientific debates produce "knowledge"; how political debates produce policies; how policy debates use science; scientific evidence for climate change; impacts of climate change; possible responses to climate change; the political debate over climate change.
GEOS	491	1	Oceanography Research	This course allow the student to undertake scientific research by dint of reading papers on global hypoxia and how it may have applied during previous epochs. The students will, in consultation with the instructor, investigate how hypoxia may have affected oceanic life forms in the past and write up their results in the form of a report in the style of a scientific paper. Climate Science is an integral part of this course.

HEFB	222	2	Teaching in a Modern Society	In this course you and your classmates will develop an understanding of teaching and learning in multiple settings, including school and community venues. Using reflection (a calm lengthy intent consideration) you will explore the development, structure, management, and finance of modern schools; philosophical, historical, ethical, and moral dimensions of teaching; the role of schooling in a democratic society; contextual issues in schools such as race, class, gender, sexual orientation, ethnicity, language, religion, learning styles, physical abilities and culture; and teaching as a profession.
HISP	362	2	Latino/a Literature	Literature by U.S.-based Latino/a authors writing mostly in English; examination of historical and social contexts of cultural production; may include novels, poetry, short stories, plays, and films to gain understanding of aesthetic expression of diverse Latino/a authors, including but not limited to Mexican Americans, Puerto Ricans, Cuban Americans and Dominican Americans.
HIST	280	7	The Civil Rights Movement - Reconsidered	The public usually imagines the Civil Rights Movement in the US as being African-American, taking place in the US Southeast, and occurring from 1954 - 1968. There were several Civil Rights Movements taking place across the US however. Additionally, most, including the African American movement, date back to the early 20th century or even the late 19th century. In this course, we will examine the African American, Latino, and American Indian Civil Rights Movements. We will examine the causes, effects, significance, and trajectories of these movements.
HIST	307	1	Latino Communities of the U.S.	Hispanic or "Latino" communities of 20th century U.S.: Mexican Americans, Puerto Ricans, Cubans and Central Americans; differences in historical experiences; role of race, class, and gender; cultural identity as expressed in art, literature, folklore and religion; contemporary social, political, and economic issues.
HIST	469	1	History of Collective Violence & Protest	Examination of collective protest and violence on a case study basis and in comparative and historical context; emphasis on causes, the nature of participation, assumptions and goals, and the character of repression.
HIST	473	1	History of Modern American Women	Emergence of modern American women in the 1890s; examination of their history from the 1890s to the present; women as organizers, innovators, political reformers, workers, social activists, housewives, mothers, consumers and feminists.
HIST	481	8	Chicana/o and Puerto Rican Social Movements	This course takes a comparative approach to civil rights history by examining the Chicana/o and Puerto Rican social movements between the 1930s and 1970s. We will explore how these movements took shape in different regions across the U.S., the bonds formed with black and Native American struggles for equality, the role of federal initiatives like the "War on Poverty," and the multiple discourses that emerged around cultural nationalism, gender, sexuality, and racial identity. We will also examine how the changing and emerging historiography on Chicana/o and Puerto Rican struggles for equality is shaping Latina/o history in the twenty-first century.
HLTH	236	5	Race, Ethnicity and Health	Explore in-depth the racial, ethnic, and cultural dimensions that underlie health and health disparities; emphasis on culture, social economic status and governmental policies as they influence the adaptation of health practices.
HLTH	331	3	Community Health	Aspects of the community that relate to health; identification and analysis of community health programs; organizational pattern and functions of voluntary and governmental health agencies; organizing the community for health action; and coordination of school and community health programs.
HLTH	334	4	Women's Health	Women's Health is designed to provide you, the student, with the opportunity to explore the health issues and health care concerns of women by identifying a broad range of health topics that are either unique to women or of special importance to women. The multidimensional roles of American women as individuals, partners, mothers, nurturers, caretakers, and career persons create a need for their health status to be of vital importance. While women and men both experience similar diseases, disorders, and causes of death, women often experience these in different forms and at different stages and ages in life. Analyze the cultural, social, economic, and political state of affairs of women's health. Determine the relationship between values, lifestyle, socioeconomic status and education in the healthcare and behaviors of women
HLTH	407	2	Global Health	Global/International Health is a three credit hour course designed to provide an overview of global health issues from a synthesis of historical, cultural, environmental, economic, and political perspectives. Students will be challenged to examine their pre-existing beliefs and attitudes towards global health and to consider world views other than their own about health issues and resolutions.

HLTH	429	5	Environmental Health	Health aspects of environments; health problems related to water, air and noise pollution; pesticides; population and radiation; examination of various micro-environments which either promote or hinder human health and well-being and their implications for community planning and utilization of human resources.
HORT	308	1	Plants for Sustainable Landscapes	Identification and use of indigenous and introduced landscape plants; plants for special uses in urban environments; emphasis on plants' ornamental attributes, cultural requirements, and adaptability in urban and suburban environments.
HORT	335	1	Sociohorticulture	Horticulture as it relates to humans through people-plant interactions; use of horticulture to improve quality of life; awareness and appreciation of the economic, environmental, social and health benefits of plants.
HORT	425	1	Landscape Maintenance & Construction	A sustainable approach to principles and practices of grading, drainage and construction of residential and small commercial landscapes, cost and bid estimation, soil preparation, transplanting operations, control of landscape diseases and pests, maintenance of landscape areas.
INST	222	8	Foundation of Education in a Multicultural Society	This course is intended to provide prospective teachers with background information and insights into the cultural, historical, and philosophical foundations of education in a multicultural society. Multiple approaches to multicultural education will be discussed and critiqued.
INTS	301	1	Theories of Globalization	This course explores various aspects and theories of globalization and development. We consider how nation states have been influenced by globalization, and the debates surrounding the effective governance of globalization. It explores theories from different academic disciplines: economics, political science, sociology and history. This course provides students with an understanding of the costs and benefits of globalization, as well as with a basis for considering the challenges that economic openness poses to governments, especially to those in emerging markets. It also seeks to discover the relation between democracy and capitalism, national sovereignty versus national interdependence, the implications of technological revolution, media, ecological risk, the cultural dimensions of globalization and modernity, U.S. hegemony, the shift to a multi-polar world from a theoretical perspective. Most importantly, this course allows students to conduct a research of their own on an important issue regarding the implications of globalization for economic and political stability of nation states in the world.
INTS	407	2	Diversity in a Globalized World	Examination of the cultural constructs that arise through the encounters with colonialism from the conquest of the Americas to the present; cultural studies and literary analysis to identify and interrogate the common principles of human interaction in the face of cultural diversity.
INTS	409	1	Culture, Neoliberalism, Globalism	This course offers students the opportunity for a critical reflection about present global reality. It provides students with the theoretical tools for understanding the complex network of interrelationships and implications that ties together Neoliberalism, Globalism, and Culture nowadays. Following the leading topic of the symbolic-political problem of the proliferation of new walls in the contemporary globalized world, the course focuses on the tensions between cultural differences and global cosmopolitanism, between the continuous emphasis on national sovereignty and the insistence on the priority of transnational economic flows. Through a trans-disciplinary approach, the course guides students toward an appreciation of the role played by politics, economics and culture in shaping symbolic and socio-political spaces of the contemporary globalized world. Also, the variety of the materials (theoretical, photographic, journalistic, artistic works, documentary films, and fiction movies) presented will give students the opportunity to engage in comparisons and contrasts among diverse possible manners of critical reflection of addressing global cultural, political, social, and economic problems.
INTS	481	4	Senior Seminar in International Studies	The purpose of this course is to equip the students with the theoretical and empirical knowledge necessary to understand the social movements, popular uprisings in the post-modern, post globalization world. In this course, we will analyze essential factors that led to the current public revolts and try to define whether current social movements are revolution or popular unrest.
KINE	289	1	Special Topics in Student Wellness	This course will explore and utilize the eight dimensions of wellness to enhance student life. Emphasis will be placed on components of student life including personal, social, occupational, and intellectual development. Participatory learning will take place through discussions with guest facilitators, technology, peer leadership, and service. Incorporates both environmental and and social health, among other forms of health.

LAND	212	1	Landscape Design II	introduces the students to basic understanding of human-environment interactions that influence and are influenced by design decision-making. This course introduces how to design physical settings that foster social interactions, improve people's psychological wellbeing, as well as support active living behaviors. Students are also introduced to the basic design knowledge of environmental perception, human preferences and fears, way finding, cognitive mapping and restorative environments as a basis for making design decisions. The course will concentrate on developing the students' ability to apply basic site design principles that combine human factors with natural systems to create usable three dimensional spaces that are environmentally, socially, and culturally equitable. Students are also introduced to the tools and methods to be used during systematic design process, including mapping, trace measures, and observation to understand and analyze human behaviors. Students are expected to develop the ability to apply basic site design principles that combine natural elements (landform, vegetation, water, climate, etc.) and human-built elements (roads, paths, buildings, utilities, furniture, etc.), to design responsively to the functional, environmental, aesthetic and cultural requirements of the site.
LAND	312	1	Landscape Design IV	The work of this semester is intended to draw upon and provide opportunity to integrate the experiences and skills developed in all previous semesters of the studio design sequence. This will be accomplished through the provision of site plans and designs for major components of the urban/suburban landscape environment. The products of the semester are intended to provide you with the experience and the vehicle to refine and develop your competence in applying knowledge through design process to address the complex landscape development issues found in contemporary practice. Completed projects should provide you with most accomplished examples of design and communication work for inclusion in your portfolio. The specific theme for this semester is the design of the urban landscape for the enhancement of sustainability and healthy living in its broadest sense. Overall direction for the semester is established by the objectives for the course described later. The overarching goal of the course is to gain experience in addressing typical land planning and urban design projects of a comprehensive nature in which the holistic aspects of the landscape are considered as determinants of appropriate site form relationships.
LAND	331	1	Landscape Construction III	Third construction studio course; sustainable water management techniques in landscape development; theory, principles and techniques of low impact development; construction document preparation, working drawings, project layout and design; theory and principles of irrigation and lighting design. Field trips required.
LAND	412	1	Landscape Design IV	Students will learn to design individual design sites as behavioral settings for people, such as a place to live, work, play, learn and heal; and as sustainable sub-components of larger cultural and natural systems. Students are expected to develop the ability to apply basic and advanced site design principles that combine natural elements (landform, vegetation, water, climate, etc.) and human-built elements (roads, paths, buildings, utilities, furniture, etc.), to design responsively to the functional, environmental, aesthetic, and cultural requirements of the site.
LAND	485	1	Green Roofs on Campus	This course is set up to engage students in active participation of living wall and green roof design, installation, measurement and maintenance on campus.
MEEN	439	1	Solar Energy Engineering	: Introduction to solar energy; solar angles and radiation; solar photovoltaics; solar cell manufacturing; solar thermal systems; solar water heating and space heating; concentrated solar power; solar energy storage; economic analysis.
MKTG	432	1	Corporate Social Responsibility	Study of the role of corporate social responsibility, corporate governance, and business ethics with an emphasis on the marketing perspective.
NUTR	430	1	Community Nutrition	Health and nutrition programs, food labeling, cultural food practices, consumer education and marketing.
OCNG	350	1	Marine Pollution	This course will provide a basic background for understanding the sources and fates of marine pollutants. Different types of pollutants including but not limited to plastics, oil, and sound will be discussed. The impact of this pollution on society will be addressed. Special emphasis will be placed on the interdisciplinary nature of the topics discussed.

OCNG	451	1	Math Modeling of Ocean Climate	Problem-based course in theoretical and computer techniques applied to mathematical solutions of ocean climate, including ocean circulation, climate variability, El Niño. At the end of the course, the student will attain: 1. A working knowledge of climate and climate change 2. An understanding of climate history 3. Effective communication skills 4. Application of basic sciences 5. Interpretation of data
PHIL	111	8	Contemporary Moral Issues	Representative ethical positions and their application to contemporary social problems.
PHIL	314	1	Environmental Ethics	Moral basis of duties to preserve or protect plants, animals and environmental systems; foundations of environmental law and policy; the idea of nature in philosophy; critique of social and economic analyses of environmental values.
PHIL	353	1	Radical Black Philosophies of Race & Racism	Critical evaluation of white supremacy, colonialism, and the modern construction of race; examination of the historical background for contemporary theories of race.
PHIL	409	1	Studies in Gender and Philosophy: Identity & Intersectionality	What does it mean to have a gender identity? Are people of different genders essentially different? Is gender innate, natural, constructed? What do contemporary conceptions of gender identity do for us (and what don't they do)? How should we think about gender identity, whether personally or politically? These are some of the questions we will investigate as we study different philosophical approaches to understanding gender identity. We will also consider the intersections between gender, sexuality, and race and the ways in which contemporary work on sexuality and race can help to inform our understanding of gender.
PHIL	482	2	Ethics & Engineering	Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability and conflicts of interest; emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.
PHIL	489	3	Forgiveness and Reconciliation	This course will address moral and political issues that arise in the aftermath of wrongdoing. Questions we will discuss include the following: What counts as forgiveness? When are forgiveness and the refusal to forgive warranted? Can forgiveness be earned or merited by a wrongdoer in response to his or her own efforts, or is forgiveness always at the free discretion of the victim? Are any crimes, such as genocide or slavery, unforgivable? How does reconciliation differ from forgiveness? When is reconciliation warranted? How should we prioritize reconciliation against other social goals, such as criminal justice?
PHLT	307	2	Public Health in the Global Context	This course provides the frameworks for understanding public health issues and population health improvement at the global scale, emphasizing the physical, social, cultural, geographic, political and economic interactions and interdependencies that contribute to health status nationally and globally. Students will analyze current and emerging global health priorities, such as emerging infectious diseases and chronic diseases; poverty, health inequity, health systems reforms, major global initiatives for disease prevention and health promotion; impact of globalization, trade, and multinationals on health outcomes; human rights and ethics in global health; culture in health and healing, cultural competence; the burden of morbidity and mortality; science and technological innovation for global health; and global institutions and partnerships.
PHLT	330	1	The Environment and Public Health	This public health core knowledge course addresses factors that pose risks and hazards to population health in the environment and in specific contexts such as homes, workplaces, consumer products, and in natural and man-made disasters. Topics include the methods for defining environmental contamination; identifying contaminants, pathogens and toxins; assessing risks and causality; determining health impact; ameliorating hazards; and protecting the population through waste management, regulatory programs, environmental inspections, food and product safety, and environmental policy. Includes interaction with professionals in public health practice through scheduled guest lectures
PHLT	441	2	Strategies for Population Health Improvement	This course is a case study based course covering the three core functions of public health and strategies for improving population health. This course will focus on case studies exploring multiple types of interventions. The course will involve class discussion, break-out groups, and group assignments. Discusses economic, environmental and race, gender and ethnicity topics.

POLS	367	1	Women in Government Around the World	This course examines the evolution of women's representation in governments around the world, with a focus on the legislative and executive branches of democratic governments. We will explore factors theorized to affect both the supply of and demand for female candidates and appointees and when and why political institutions impact women and men differently. The course provides an in-depth exploration of scholarly literature about representation of women in politics and class members will gather data and conduct comparative research about representation of women in politics
POLS	429	2	Issues in World Politics	This is an undergraduate course on conflict and cooperation in the area of international environmental politics. The course will discuss how environmental issues became a major concern internationally. After identifying today's major environmental threats, the course will examine how diverse actors, including local activists, nongovernmental organizations, advocacy networks, scientific communities, governments, private companies and international organizations contribute to international responses to contemporary environmental issues. Topics to be covered include demography, climate politics, biodiversity, and sustainable development.
POSC	427	3	Animal Waste Management	An applied approach to current and emerging issues relating to responsible management of animal waste; the role of biological aspects of production management decisions evaluated in an examination of regulatory and environmental requirements; current case studies and exposure to field situations.
POSC	489	1	Animal Welfare	Concern about the welfare of domesticated, captive and wild animals has increased dramatically in the United States and many other industrialized countries. The issues involved are complex, and there is widespread disagreement both as to the extent of human responsibilities toward animals, and how those responsibilities should best be carried out. Although human ethical attitudes are a critical part of the dialogue about animals, in this course we will not deal directly with human values, but will instead attempt to look at the problem from the animals' points of view. Who are animals, and can they (do they) experience pain? Which practices compromise their welfare and which do not? How can management practices and environments be modified to improve the welfare of animals? Although there are no easy or clear-cut answers to these questions, we will attempt to gain some basic skills and perspectives in this course that can enable us to begin addressing these questions systematically.
PSYC	209	1	Psychology of Culture and Diversity	Introduction to various issues surrounding an increasingly interconnected and globalized world by critically examining the dynamic relationship between psychological processes and diverse (e.g., motivation, memory, self, prejudice) socio-cultural contexts.
RDNG	371	3	Multicultural and Interdisciplinary Literature for Middle Grades	Focuses on multicultural and interdisciplinary literature appropriate for middle grades students; implements and evaluates effective multicultural, interdisciplinary instruction through selection, use and development of literature in middle grades classroom.
RENR	205	2	Fundamentals of Ecology	Principles of ecology using a holistic approach treating plants, animals and humans as one integrated whole; composition, structure, nutrient cycles and energetics of biotic communities; adaptations to environmental factors; biotic relationships; and problems of environmental quality and resource use.
RENR	345	1	Park Ecology and Management	This is a 3-credit course culminating in a week-long field experience held in conjunction with five other universities in Great Smoky Mountains National Park. The purpose of the consortium is to provide students with hands-on exposure to natural resources management in a major U.S. protected area facing complex challenges. It is designed to increase students' understanding and appreciation of natural resources, the agencies managing those resources, the management strategies used, and the factors affecting management including issues related to the nearby "gateway communities" and the park's broader environment. The course format is one which focuses on problem solving, encourages a high level of interaction among participating students, faculty, and managers, and gives participants an opportunity to connect with nature.
RENR	375	2	Conservation of Natural Resources	Principles and philosophies associated with the development, management and use of natural resources; ecological and social implications inherent in management alternatives involving the natural environment and use of renewable natural resources.
RENR	400	1	Study Abroad in Natural Resources	Provides students with an opportunity to gain first-hand experience in natural resource management in foreign countries; focus on the interaction of public, communal and private land tenure systems with the ecological and human dimensions of rangeland management, wildlife conservation and nature-based tourism.

RENR	470	1	Environmental Impact Assessment	The evolution of natural resources regulatory policies and how this influences current procedures for environmental/natural resources assessment and management; demonstration of the environmental impact assessment procedures and policy issues associated with environmental impacts.
RPTS	308	1	Foundations of Community and Community Development	Analysis of the elements comprising a community, community assessment techniques and community development processes engaged by stakeholders and residents to improve living conditions; definitions and principles associated with community development.
RPTS	316	1	Recreational Management of Wildlands	Management and recreational use of wild and wilderness areas and multiple use management areas; systems and techniques for dealing with management problems in outdoor recreation.
RPTS	340	2	Recreation, Parks, Tourism and Diverse Populations	Review of major judicial decisions and civil rights laws on provision and distribution of leisure services in society; influence of age, disability, ethnicity, national origin, race, religion and gender on individual's preferences for particular experiences; implications of individual differences for the provision of services.
RPTS	402	1	Park Planning and Design	This course is about people and places. In particular, it is about parks and other places where people spend leisure time. The course reviews the importance of an environmental and social ethic in planning and design, the process and products, and how planning and design of a place can influence people. You should complete the course having gained knowledge that will help you to contribute to a planning or design process and be able to critically examine various types of plans and designs. The course should provide you with a better understanding of physical and social environments and the role that parks and tourism places can play in sustaining them.
RPTS	404	1	Sociology of the Community	Organization of American communities examining the bases of community, types of communities and the changes faced by communities. This course will involve an analysis of the social construction, social experience, and community as an institution and as a set of everyday relationships and networks. In this course, we will discuss particular concepts of community and its attendant institutions and roles as important cornerstones of ways to structure social interactions on various levels, especially relations of power and inequality in society. The objective of the course is to challenge our taken for granted notions about these topics, and ask the sociological questions, "How constructed/natural is community?" and "What is community, and what is it for?" The course will deal primarily with these issues over the last two decades or so, with an eye simultaneously towards a historical grounding of our understanding of contemporary issues.
RPTS	426	1	Tourism Impacts	Consequences and impacts of various kinds of tourism development for host communities and regions; read and evaluate case studies from Texas, other areas in the United States and internationally; economic, environmental, social, cultural and political impacts associated with tourism proposals, project development, tourist activity, industry expansion and industry decline.
SCSC	330	1	Social and Ethical Aspects of International Cropping Systems	Philosophical basis of ethical decisions; includes slavery, war, population growth, migration, farm workers, chemical inputs, genetically modified organisms, soil and water conservation and protection of wild species.
SCSC	405	1	Soil and Water Microbiology	Roles of soil and water microorganisms in the sustainability and productivity of various ecosystems with specific emphasis on plant-microbial interactions, nutrient cycling, degradation of pesticides and other xenobiotics, generation of trace gases, and soil and water quality; hands-on laboratory experience with current techniques in soil and water microbiology.
SCSC	410	1	International Agricultural Systems	Contrast modern agriculture systems with those in developing countries; emphasis on natural resources and technologies interacting with economic and social development on a global scale.
SCSC	422	1	Soil Fertility and Plant Nutrient Management	The principal emphasis of this course will be an improved understanding of chemical and biological reactions in soils that influence nutrient availability to plants. An additional emphasis will be environmental aspects associated with nutrient availability and fertilization, especially for nitrogen (N) and phosphorus (P). We will explore factors that influence nutrient availability in soils and discuss management practices that enhance availability and efficiency. Once you've completed this course, you should understand how soil characteristics interact with fertilization and other management practices to affect plant growth, nutrient uptake, and potential environmental quality.
SCSC	444	1	Forage Ecology and Management	Investigation of multidisciplinary approaches toward the development of integrated forage, livestock, and wildlife production systems that are economically feasible and environmentally sustainable.



SCSC	455	1	Environmental Soil and Water Science	Discussion of physical, chemical, and biological properties of soil and water and the impact on productivity and sustainability of various ecosystems; application of the knowledge of properties and soil processes to develop and evaluate strategies for protecting and/or improving soil and water quality.
SOCI	203	1	US-Mexico Border Sociology	Understanding of the US-Mexico border from different theoretical perspectives and disciplines, including structural violence, identity, power, demography, and sociology. This course is designed to introduce you to sociological understandings of the US-Mexico border. This border is much more than a geographical divide established by international treaties. It has a power and a force that structures and patterns human behavior, identity, and belonging for people who live near it, cross it, locate it in their memory, and see its effects on their family and friends. It has political, social, emotional, ethical and economic components.
SOCI	206	1	Global Social Trends	Long-term trends in world societies from ancient times to the present and to the foreseeable future; emphasis on contemporary international issues and problems, techniques of analysis and future projections.
SOCI	207	2	Introduction to Gender and Society	Similarities and differences between females and males in a number of cultures throughout the world; sociological analysis of gender in relation to social structure.
SOCI	217	3	Introduction to Race and Ethnicity	Sociology's lower division undergraduate course introducing the study of race and ethnicity. In this course, we will focus on (1) how sociologists define and use the concepts of "race" and "ethnicity," and (2) how sociologists use theories and data to learn about race and ethnicity. This course will introduce you to the sociology of race and ethnicity, providing you with the resources needed to investigate the issues more fully. This course is not designed to teach you what to think about racial and ethnic issues, but instead how to think critically about them. This course requires you to use your critical thinking, reading and writing skills in the analysis of materials regarding racial and ethnic minority groups in the United States. This course also gives you the opportunity to study issues of racial and ethnic inequality first-hand through service learning. You will work with a local community organization, write field notes recording your observations, and use that field research to reflect on the course materials and analyze racial and ethnic inequality in our community
SOCI	314	3	Social Problems	Survey and exploration of causes and consequences of major social problems in American society such as poverty, unemployment, energy, alcohol, other drugs and sexual abuse.
SOCI	317	1	Racial and Ethnic Relations	Status of racial and ethnic groups such as Native Americans, African Americans, Latino Americans, Asian Americans, European Americans, and other groups in the political, economic, legal and social systems of the United States.
SOCI	323	1	Sociology of African Americans	Major elements of the Afro-American subculture in relation to white American society and its major social institutions.
SOCI	328	1	Environmental Sociology	A comprehensive overview of environmental sociology, including major sociological theories, concepts and policy issues affecting our understanding of environmental changes; emphasizes social factors that impact environmental quality.
SOCI	330	1	Sociology of Nutrition	Social factors affecting the kind and amount of food consumed around the world; social consequences of nutritional status for family functioning and for international development.
SOCI	338	1	Latinx Immigration	"We are a nation of immigrants" is a common phrase used to describe the U.S. But what does that mean? This course will examine migration primarily through the case of the U.S. by scrutinizing the way immigration policy developed historically to include and exclude specific racial and ethnic groups at different points in time. The course is designed to provide theoretical and empirical background to understand current debates on immigration, which have focused almost exclusively on Latin American migration. Thus, we will examine theories, patterns, causes, and effects of authorized and unauthorized migration to the U.S. with a focus on Latin America. Comparative studies of immigration in Europe, Africa, and Asia will be used to gain a clearer understanding of immigration. As part of the course, students will be tutors in a citizenship course for legal permanent residents preparing to take the citizenship test for 6 hours during the semester (more details below). Based on that experience, students will reflect through written assignments and class discussions about the meaning of civic engagement, citizenship, and the role of immigration in the US historically and in present moment.
SOCI	403	1	Sociology of Latinos	Exploration of social characteristics and acculturation problems of Mexican Americans in the United States; styles of life and cultural variability, social mobility, the struggle for advancement and identity through social movements.

SOCI	419	1	Social Class in Contemporary Society	Composition and consequences of social class structure; social class explanations for lifestyle patterns, educational and occupational achievements.
SOCI	489	4	US-Mexico Border Sociology	This course is designed to introduce you to sociological understandings of the US-Mexico border. This border is much more than a geographical divide established by international treaties. It has a power and a force that structures and patterns human behavior, identity, and belonging for people who live near it, cross it, locate it in their memory, and see its effects on their family and friends. It has political, social, emotional, ethical and economic components.
SPMT	319	3	Sociology of Sport	Social institution of sport and its consequences for American society; social organization from play to professional sport; violence, discrimination, women in sport; socialization implications from participation in sports.
SPMT	336	3	Diversity in Sport Organizations	This course examines an encompassing perspective of diversity within North American and international sport organizations. Specifically, the course provides students with an analysis and understanding of the various ways that people within sport organizations can differ. The course treats issues of the non-dominant, historically under-represented elements of U.S. society, with an emphasis placed on racial, ethnic, and gender issues.
TEFB	273	4	Introduction to Culture, Community, Society and Schools	Field-based course that introduces the culture of schooling and classrooms for analysis within the lens of language, gender, racial, socio-economic, ethnic and academic diversity; the family as a partner in education and educational equality discussed.
TEFB	322	1	Teaching and Schooling in Modern Society	Development, structure, management and finance of secondary schools; historical, philosophical, ethical and moral dimensions of teaching; role of school in a democratic society; teaching as a profession.
TEFB	371	7	Dynamics and Management in Multicultural/Inclusionary Learning Environments	Field-based course focusing on communication, methodology and management perspectives that lead to democratic classrooms; organizational structures that focus on transformative, inclusionary learning; interventions for students with disabilities; analysis of systemic conditions placing children from diverse backgrounds and representing diverse abilities in positions of "risk" for incomplete success in school.
UGST	484	2	Sustainability Outreach Specialist Internship	Sustainability is a growing field that uses a holistic lens to investigate and problem solve the environmental, social, and economic problems that our world faces. The goal of the Office of Sustainability's Internship Program is to bring people from a variety of backgrounds and perspectives together to create a dynamic team that works to create a culture of sustainability at Texas A&M University. The team will focus on increasing the sustainability of practices such as energy and water use, transportation, food services, construction and built environment, purchasing, recycling, and social justice through the development of outreach initiatives and event coordination, and by fostering campus partnerships to facilitate institutional change.
URPN	201	2	The Evolving City	This course introduces students to the history of contemporary urban and regional planning, and how the evolving forms of cities and regions pose opportunities and challenges for planners. This course helps students to understand key social, economic, political, and technological forces that shape city form and function and its ramification for urban and regional planning. It covers the evolution of cities, history of planning, and contemporary issues in planning.
URPN	202	4	Building Better Cities	Introduce students to contemporary issues of urbanization, past influences and current practice of public planning in the United States and abroad. • Discuss multi-dimensions & multi-disciplines of urban and regional planning. • Present theoretical and practical urban planning issues. • Explore variety of methods and strategies for planning and building better cities. • Compare interdisciplinary urban planning perspectives and expertise. • Critique ethical and economic implications of urban planning domains and outcomes.
URPN	340	1	Housing and Community	Housing, its development, planning, marketing, designing, financing and production; social and design history and contemporary issues of American housing development, urban renewal, neighborhood structure and community facilities.

URPN	361	2	Urban Issues	The world is becoming increasingly urban. In the United States 3 out of 4 people live in urban areas, and in the rest of the world the numbers are increasing. How did cities emerge? What makes cities grow? How cities work? Are they sustainable? These are introductory themes that we expect to answer in this class: the evolution and development of cities; the socio-economic, cultural and physical development of urban areas; and their contemporary problems such as, unemployment and poverty, crime, public health, racial tension, environment (pollution, disasters, desertification, and degradation) and other quality of life issues.
URPN	371	1	Environmental Health Planning & Policy	Philosophical and historical relationships of human-environment-disease; environmental health domains and associated planning and policy organizations and initiative for monitoring, intervention, and prevention; interdisciplinary approaches for risk analysis of environmental health.
URPN	460	1	Sustainable Communities	Focuses on sustainable community with applications in public policy/design including societal organization, disciplinary bound design and policy, and empowered approaches to design, social ecology and public policy; reading and review of relevant literature on sustainability, complemented with exercises to illustrate underlying principles.
URPN	469	1	Urban Infrastructure Planning	The course will review how sustainable infrastructure designs can be implemented as part of the overall mix of infrastructure systems, to be more efficient and less resource-consumptive. We will explore management aspects of operation common to all infrastructure systems, especially as related to condition assessment and maintenance and rehabilitation. We will also explore alternative infrastructure support approaches both in the US and internationally, and identify how innovative infrastructure designs might provide more sustainable performance in new and redeveloped cities and communities. We will review how the design of infrastructure systems substantially influences the sustainability and carbon footprint of urban and suburban development. We will explore planning/infrastructure/urban design approaches that create more sustainable cities and communities, including approaches involving zoning, environmental conservation, and smart growth. We will discuss infrastructure issues that affect greenhouse gas generation/carbon footprint/environmental emissions, climate change, disaster resiliency, social equity and environmental justice, and economic opportunity (triple bottom line). Using case studies, drawn from cities and communities such as Houston, Philadelphia, Asheville NC, Haiti, Cleveland, and other locations we will explore how planning more efficient infrastructure systems is essential to realizing sustainable cities.
URPN	483	1	Studio in Urban and Regional Science	Studio introduces the confluence of ecological, environmental, economic, social, cultural, and political forces impacting the planning, design, and development of complex urban environments; site planning, design process, sustainability.
WFSC	419	1	Wildlife Restoration	Students will be exposed to the fundamentals of the restoration of animal populations and the resources they require; factors that control the distribution and abundance of animals in relation to restoration; and how restoration plans for wildlife are developed. The course emphasizes classroom lectures and discussions, along with critique and development of the restoration plans.
WFSC	420	1	Ecology and Society	Study and compare approaches to social and ecological systems using resilience, vulnerability, interrelations, and social-ecological systems as the conceptual organization; central themes are sustainability, stewardship and science.
WGST	318	1	The Economics of Gender and Race	he student will understand the reasons for the past and current measured gender and race differences in economic outcomes in the U.S. labor market. The primary focus of this course is on the economic behavior of women and men, on economic institutions, and on economic outcomes, with a particular emphasis on race differences. We will seek answers to questions such as: Why are men paid more than women, and whites paid more than non-whites? Why do women and men work in different occupations? What explains the rise in labor force participation of women in the post World War II era? What explains the decline in labor force participation of black men in recent decades? Why do men and women marry? Why are there now more women than men enrolled in college? We will apply economic models of comparative advantage and specialization, supply and demand, consumer choice, human capital, and discrimination to explore the answers to these questions. Economic theory will frame our discussion.

ACCT	489	1	Global Immersion in Accounting	Global Immersion in Accounting is a combination of pre-departure classes taught in the semester prior to international immersion. Sessions include historical and cultural overviews of the target region and an in-depth look at companies that will be visited during the trip. The course culminates in a two week tour of the region in June. Course covers culture, history, and social structure of Australia. Covers environmental, social, and economic issues using a sustainability lens.
AERO	401	2	Introduction to Aerospace Engineering	Overview of aerospace engineering and the aerospace industry, including requirements and assignments of an aerospace engineer, vehicle configurations and missions, aerodynamics, structures and materials, dynamics and control, simulation and testing, and aerospace engineering in the future. Sustainability aspects covered.
AFST	201	1	Introduction to Africana Studies	Introduction to the field of Africana Studies: interdisciplinary approach drawing from history, philosophy, sociology, political studies, literature and performance studies; explores the African foundational relationship to and connections with its diaspora populations; covers Africa, the United States, the Caribbean, Europe and South America. • Identify and discuss the main contours and major developments in Africana Studies • Recognize and challenge intellectual hegemony • Critically engage academic orthodoxies and explore alternative paradigms and theories
AFST	204	1	Introduction to African American Literature	Introduction to the writings of African Americans from the 18th century to the present, emphasizing the major themes and traditions.
AFST	209	1	Psychology of Culture and Diversity	Introduction to various issues surrounding an increasingly interconnected and globalized world by critically examining the dynamic relationship between psychological processes and diverse (e.g., motivation, memory, self, prejudice) socio-cultural contexts.
AFST	345	1	Modern Africa	This course will examine selected topics in the history of Africa since 1800. The principal aim of the course is to provide students with a historical foundation for understanding contemporary Africa. Much of what is reported in the popular media about events and trends in Africa today lacks historical context and is rooted in hoary American stereotypes about Africa and Africans. In an effort to correct these misperceptions and to expand our knowledge of the people of this fascinating continent, we will examine Africa's history during three crucial periods: the 19th century up to about 1880 (that is, the period prior to the European conquest and "partition" of Africa); the colonial period (roughly 1880 to 1960); and the postcolonial or "national" period (1960 to the present). Throughout the course, emphasis will be placed on the great diversity of Africa's historical experiences over the last two centuries.
AFST	379	1	Postcolonial Studies	Between the late 15th century and the early 20th century most of the world fell under the political and economic control of a handful of European countries. The post WWII period saw the rise of nationalism in the "third world" and the move toward independence by India and many African, and Caribbean nations. The term 'postcolonial' typically refers to the period after the end of formal colonization such as by England, France, Spain, Belgium, etc. It concerns the condition of societies and peoples after they have achieved independence, by peaceful or other means, from a colonial power. The end of formal colonial rule, however, has left unaltered or intensified certain forms of domination, especially economic and cultural ones. Further, countries such as Puerto Rico and Martinique, have not achieved independence but neither can they be thought of strictly or even equally as colonial possessions. Additionally, the United States, Africa, and Latin America--which achieved independence in the 19th century-- cannot be said to be equally 'postcolonial'. This class will introduce you to the key terms, themes and debates within postcolonial studies through a wide range of literature, film, speeches, and other documents. Its core focus is the relationship between colonization and freedom: what does it mean to have to seek and achieve freedom? What is the relationship between being free and being human? In answering these questions, we will focus on 20th century negotiations of colonial power but we will also consider the United States' own past as a colony.
AGSM	201	1	Agricultural Energy and Power Systems	A study of the types of power and energy sources used in agricultural equipment and systems; management considerations for selecting, operating and maintaining internal combustion engines, electric equipment and motors, and renewables as power sources.

AGSM	435	1	Irrigation Principles and Management	Principles of irrigation and management for efficient use of water; soil-water-plant relationships; methods of application; power and labor requirements; automated systems and components. There are some units that evaluate which irrigation system is most efficient, which could be applied to sustainability.
ANSC	310	1	Behavior and Management of Domestic Animals	Application of behavior of cattle, horses, sheep, goats and swine to their management; basic principles, physiology of behavior, perception, training, predators, use of dogs in livestock production, stress and animal welfare.
ANTH	201	4	Introduction to Anthropology	The course explores the world and human culture from an anthropological perspective. First, we examine the development of humans and our nearest cousins, the primates. Next we examine how human cultures formed and changed through time from early hunting and gathering societies to the later development of domestication and finally the emergence of the modern technological revolution in which we are living. We will take an in depth look at many aspects of human cultures such as marriage, kinship, political organization, religions, economics, trade, art, and many other aspects that define us as humans. We will also examine the role of colonialism and the unequal relationships that existed in the past among cultural groups and why many of those inequities continue to plague the world today. Our overriding objective throughout the course will be to discuss these topics in a way that will demonstrate how an understanding of culture, history, environment, colonialism, and the global problems of today provides us with a much better perspective and understanding of why the world is the way it is.
ANTH	324	3	Music in World Cultures	This course is designed to equip students with a conceptual framework for exploring expressive practices in diverse locations, networks, media, and societies. An important goal is to problematize the causes and effect of popular culture by engaging the social, economic, political, and creative dynamics of lived experience. Finally, we will also reflect on how our individual subjectivities—our differences of gender, sexual orientation, class, race, ethnicity, generation, and nationality—influence our interpretation of other cultural products and processes.
ARAB	489	1	Minorities and the Middle East	“Minorities and the Middle East” has a broad perspective on Middle East minorities exploring them in two geopolitical contexts—Arab countries & Israel, on one hand, and Arab & Muslim diasporas, on the other. Students will be able to examine formative issues associated with minority groups, such as immigration, religion, culture, discrimination, prejudice, Muslim privilege, human rights, Islamophobia, etc. In addition to the more traditional perspective on Middle Eastern minorities, which sees them as religious and ethno-linguistic groups alone, this course takes an innovative approach and studies minoritized groups that form around gender, sexual orientation, class, species, skepticism, disability, and nomadism. The goal of the class discussions is to explore how concepts like citizenship, rights, duties, community, and culture relate to our understanding of the experiences of minority and their struggles.
ARCH	335	1	Architectural Systems	Theory and applications of building energy use, envelope design, shading analysis, heating and cooling systems, lighting design; building water supply, plumbing and drainage systems; electrical, acoustical, fire and lightning protection; life safety; transportation systems and construction materials; calculations, equipment selection, and component sizing as they relate to building design.
ARCH	446	1	Foundations of Historic Preservation	Exploration and evaluation of the cross-disciplinary work of historic preservation; emphasis on the significance of historic places to societal well-being and conservation alternatives for historic and cultural environments; review of preservation projects and treatments; guest presentations and case studies from practicing professionals and researchers in a variety of fields.
ARCH	481	2	Seminar	Seminar. Credit 1 each semester. Discussion and review of current practice in architecture and environmental design. Accelerating change in the basic assumptions underpinning the design of health and hospital facilities is occurring at light speed. In order to keep both faculty and students current in this very dynamic and exploding field, weekly guest speakers will address specific issues in “Architecture for Health” in their area of expertise. Some of the scheduled lectures discuss topics in sustainability, such as "The Global Impact of the Concept of 'Population Health' on the Design of Health Networks and Health Facilities."

ATMO	201	6	Weather and Climate	Weather and climate play a major role in our lives. This introductory level course explores our earth's atmospheric environment and the processes that produce the daily weather and the resulting climatic conditions we experience. Atmospheric composition and structure, the energy input that drives the atmosphere, pressure and wind, organized weather systems, climate classification and climate change, as well as severe and destructive weather systems are all part of this course. In-class Q&A sessions and a brief once-weekly discussion of weather conditions will be made to put the lecture's material into context and allow you to exercise newly acquired knowledge. There are no prerequisites for this class.
BAEN	201	1	Analysis of Biological and Agricultural Engineering Problems	Overview of Biological and Agricultural Engineering discipline through case studies and contemporary problems; introduction to computer programming; engineering analysis and problem solving using computer programming. Course includes lessons on topics such as Bioenergy Engineering and Soil and Water Engineering.
BAEN	301	1	Biological and Agricultural Engineering Fundamentals 1	Fundamental engineering concepts related to agricultural systems including the environment (soil, water, and air), plant and animal production systems and processing, and associated machines and facilities; application of techniques for data collection and analysis to problems in biological and agricultural engineering; design of experiments and communication of experimental results.
BAEN	465	1	Design of Biological Waste Treatment Systems	Management and treatment of high organic content wastes streams, with emphasis on agricultural, municipal, and agro-industry wastewater; engineering design of biological waste treatment processes; resource recovery from waste streams; recycle and reuse of finished effluents.
BEFB	426	2	Effective Instruction for Hispanic Students of Diverse Abilities	In essence, this course is designed to enhance the student teaching experience. The goal is to fine-tune pedagogical theory and praxis. This course allows you, the student teacher, to evaluate, internalize, and apply the knowledge that you have acquired during undergraduate studies and use this to inform teaching and practice. Furthermore, this course will prepare you to become a reflective teacher and a problemsolver as you use research, theories, observations, and analysis to evaluate instruction effectiveness, behavior management, and best practices for working with elementary students in bilingual, duallanguage, and ESL settings.
BESC	402	1	Environmental Regulations and Remediation	Topics Include: Federal Regulations and Environmental Policy. 1) Introduction to Risk Based Corrective Action 2) EPA and ASTM Guidelines 3)Texas Risk Reduction Program (TRRP) 4)Remediation Technology 5) Concepts of Bioremediation 6)Bioremediation of Chlorinated Compounds 7) Biodegradation of Aliphatic
BIOL	214	3	Genes, Ecology and Evolution	A genetically-based introduction to the study of ecology and evolution; emphasis on the interactions of organisms with each other and with their environment.
BIOL	357	1	Ecology	Analysis of ecosystems at organismal, population, interspecific and community levels. The course begins with a detailed coverage of energy flow and nutrient cycling within ecosystems and then examines various aquatic and terrestrial biomes. This is followed by an examination of plant and animal adaptations, and how these adaptations limit the organism's niche, but enhance its survival. A detailed examination of predation and predation theory follows examination of adaptations. The second half of the course focuses upon population and community ecology, and ends with an examination of biological diversity and its importance to the human population.
BIOL	462	1	Amazon River Tropical Biology	Amazon River Tropical Biology is a one-semester study abroad course (3 credits) that focuses on the natural history, ecology, evolutionary biology, geography, and culture of the Amazon River and Rio Negro, a massive black-water tributary. Students will discover the attributes of the world's largest and most bio-diverse river basin during a 10-day expedition that embarks in early January from Manaus, Brazil. During this boat-based expedition, students will learn about tropical biology by surveying biota and recording observations about this unique ecosystem. Upon completion of the expedition, students will select research topics and develop presentations that will be reported to the class in weekly two-hour sessions during the spring semester. One of the major course topics is biological conservation, which includes human impacts, biological preserves, and sustainable use of natural resources.

BUSN	489	1	Strategic Philanthropy	Through the course of this semester each student will not only learn about strategic giving, but practice it. The Philanthropy Lab and the VanLoh Family have generously provided \$100,000 to our class so that we can distribute it to local nonprofit organizations. We will join classrooms across the country at Yale, Princeton, University of Texas, and Stanford as we engage in this innovative approach to giving. Students, operating as a foundation's board of directors, will determine the mission and objective of the funding based on students' values; the organization(s) to which funding will be allocated; the number of and size of the gift(s) that will be made; how the gift(s) will be awarded; and how the impact of the gift(s) will be evaluated and assessed. To best accomplish this task, we will hear from multiple philanthropic leaders, engage in vibrant classroom discussions, and experience a unique process that is the first of its kind at Texas A&M. While much of the semester will operate in team settings, a primary goal for you as an individual, is to learn about how you can best respond to community needs as a philanthropic leader. Whether you have \$1, \$1,000,000, or 5 hours to volunteer on a Saturday afternoon, you will examine and further develop your own personal philanthropic autobiography. It is my hope that you leave this class with a comprehensive understanding of the intricacies of philanthropy and the nonprofit sector and a personal plan to engage this sector in the future.
CHEN	425	1	Process Integration, Simulation and Economics.	In particular, the course introduces the students to the principles of process economics including evaluation of fixed and operating costs, depreciation, and profitability analysis. The course also includes lectures on topics such as Sustainability and Sustainable Design.
COMM	203	25	Public Speaking	Public Speaking. Training in speeches of social and technical interest designed to teach students to develop and illustrate ideas and information and to inform, stimulate, and persuade their audiences. Environmental and social justice topics are covered.
COMM	335	3	American Oratory	This is a survey course of significant American oratory; critical analysis of important speeches in their historical, political, social, and philosophical contexts. Course examines slavery, the Civil Rights Movement, women's rights, etc.
COMM	340	1	Communication & Popular Culture	Survey of theories and concepts of popular culture; dynamic relationships between pop culture and television, film, sports, politics and leisure. <ul style="list-style-type: none"> <li>● Investigate key terms such as: culture, mass society, popular and globalization</li> <li>● Analyze how popular culture is constructed and the tools needed to study its meaning and impact</li> <li>● Articulate the role mass media plays in creating, discerning and interpreting culture</li> <li>● Identify how popular texts, images and icons can be used as tool to support or challenge cultural values and beliefs</li> <li>● What role do audiences/consumers play in creating popular culture?</li> <li>● In what ways do mass media represent, reconstruct or determine "reality"?</li> <li>● What stories do popular media tell us about race, gender, religion and our identity?</li> <li>● Is it possible to produce countercultural messages and products in a global society?</li> </ul>
COMM	415	2	New Media and Civil Society	Critical analysis of new media technologies, civic participation, and social capital in democratic, non-democratic, and nascent civil societies around the world.
COMM	420	1	Gender and Communication	Survey of the role of gender in communication processes; focus on communication differences between men and women in contexts such as the family, school and work organizations; discussion of media influence in gender stereotypes.
COMM	428	1	Women's Rhetoric	Women's relationship to the rhetorical arts has been a tenuous one at best. Some definitions of rhetoric, such as Aristotle's "the faculty of observing in any given case the available means of persuasion," do not necessarily exclude women. Other definitions, however, like Quintillian's "good man speaking well," predict and reflect a historical imbrication of masculinity and rhetoric. This imbrication, as antiquated as it may seem, has continually shaped, amongst other things, (1) the ways women have sought to participate in political life, (2) the reception of women's rhetoric in the public sphere, and (3) the ways (and lack thereof) women are remembered and represented as rhetorical agents throughout history. Although women have demonstrated their rhetorical acumen in a variety of cultural arenas, this course focuses on the following contexts: (1) U.S. anti-slavery and suffrage movements and (2) the second-wave feminist movement. Participants in the course will engage a variety of rhetorical forms, critically investigating the various ways "women" matter to the study of rhetoric. Discusses race and gender dynamics.

COMM	450	2	Media Campaigns	This course involves the principles of designing media campaigns and advertising as applied to health, crime, and the environment—as well as processes that drive the planning and execution of these campaigns. This course begins with a review of campaign, marketing and advertising basics, including goals, theory, persuasive elements, design, and implementation. It follows with an exploration of media campaigns and advertising in different domains, including health, politics, the environment, and crime.
COSC	450	1	Facility Management Principles & Practices	Principles of facility management; the life cycle of a project; strategic planning; performance measurements; life cycle cost approach; building sustainability; maintenance management; and industry practices
COSC	440	2	Interdisciplinary Capstone	A senior capstone for students preparing to enter the design-build sector of the construction industry; integration of the design and construction processes into a single, cohesive project delivery system, starting with project inception, and carrying through construction, operation and maintenance of various types of construction projects. Demonstrate understanding of evolving industry issues/practices; such as, Lean construction, BIM, and sustainable construction.
COSC	441	1	Residential Capstone	A senior capstone course for students preparing to enter the residential construction sector; Development & project management of residential construction projects, including: aspects of design, bidding/estimating, presentation contracts/negotiation, subcontractor relations, cost controls, management during construction, close out, post-construction requirements, and sustainable residential construction. Course includes lectures and topics such as energy efficiency, sustainable materials, and green building as a business strategy.
COSC	468	1	Risk Management in the Built Environment UK	This is an advanced course in construction risk management. The course provides an overview of the decision-making and risk analysis in the built environment, specifically risks associated with different stages of the project lifecycle, including planning, design, pre-bid, contract negotiations, typical insurance policies, construction claims management and close out. Course content includes risk definition and identification, risk assessment and management techniques, contractual risk control, risk investigation and claims management, risk sharing and risk shedding, and contingency management. This will include discussion and consideration the risk management tools regularly used in the construction industry such as contracts, party selection, insurance involved. It includes learning where aspects of risk management begin and risk shifting techniques, damages from risk, contract review, appropriate terminology, handling of claims and disputes, indemnification, bonds, insurance, contract and subcontract management; bankruptcy as a risk; how labor and employment issues impact risk in the context of a construction project, how the various parties to risk management handle litigation and alternative dispute resolution in the construction industry. This course has a unit on environmental issues
CVEN	413	1	Natural Environmental Systems	Course objectives include: 1. Learn the chemical and physical principles that determine the fate and transport of pollutants in natural environmental systems 2. Learn basic methods to model the fate and transport of pollutants in natural environmental systems 3. Improve communication skills in explaining engineering materials
CVEN	455	1	Urban Stormwater Management	This course discusses the application of hydrologic and hydraulic concepts to the analysis and design of stormwater drainage systems in urban areas. After taking this course, the students will be able to solve the most frequent storm water drainage problems found in urban areas.
ECEN	467	1	Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems	Solar radiation characteristics and measurement; Optical coatings including reflection, transmission, absorption and emissivity; Concentrating optics, tracking and etendue limit; Photovoltaic cells, modules and systems overview. Introduction to solar thermal systems.
ECON	412	2	Public Finance	Topics include: 1) Principles of policy analysis, 2) public goods, 3) Externalities, 4) Public Choice 5) Poverty, Inequality, and Redistribution 6) Analysis of Welfare Programs 7) Social Security 8) Health Care Issues 9) Principles of Tax Analysis 10) Deficit Finance 11) Federal Income Tax 12) Federal Tax Reform



EHRD	203	3	Foundations of Human Resource Development	designed to provide students with an overview of the discipline and practices in the field of Human Resource Development. The class focuses on how individuals and groups learn and interact with organizations including motivation, group dynamics, systems theory, organizational culture, learning and change. This class contributes to the fulfillment of the academic requirements for the undergraduate degrees for both the Technology Management and the Human Resource Development majors of the Bachelor of Science Degree in the Department of Educational Administration and Human Resource Development, College of Education. This course includes units on culture and diversity training, as well as sexual harrassment training, and anti-discrimination.
EHRD	210	2	Legal and Ethical Environment of Human Resource Development	EHRD 210 provides an overview of the employment sphere of public and private organizations. In addition, the course explores the increasingly uncertain nature of ethical decision-making at various levels of management. Course goals include: 1. Develop an objective and intellectual approach to employment related issues 2. Understand the legal hierarchies and their impact on the employment setting 3. Understand the basic principles of an employment relationship 4. Develop an acute awareness for workplace discriminatory treatment and prevention 5. Understand the basic principles of the hiring process 6. Develop skills and knowledge for creating inclusive workplaces 7. Understand the basic principles of workplace compensation, benefits, and work conditions 8. Understand the basic principles of ending an employment relationship 9. Understand the ethical complexity inherent in leading complex and diverse organizations
EHRD	413	2	Conflict Management and Dialogue	In this course the many ways that individuals think about and practice conflict management and effective dialogue will be explored. Students will have a chance to learn more about their own negotiating preferences and its impact on self, the workplace, and their careers. Additionally, an aim of this course is to assist learners in the identification and learning of the importance of effective conflict management in the workplace and to develop skills to effectively engage in meaningful conflict using effective modalities for the situation presented. The emphasis in this course is the appreciation of conflict management from a social justice perspective. Further, higher education and strategic conflict engagement will be explored. The course requires both intensive involvement in negotiation and mediation simulations/exercises and thoughtful application of theory through class discussion and written analysis. Class materials will reflect a variety of contexts from the workplace, including interpersonal, global, and cross-cultural interactions
ENDS	108	4	Design and Visual Communication Foundation II	Approaches to problem identification and problem solving emphasizing an awareness of human, physical and cultural factors influencing design; reinforcement of visual and verbal communication as applied to the design process. Emphasizes sustainability and feasibility.
ENGL	219	2	Literature and the Other Arts	The course explores the aesthetic intersections of literature and the visual arts through the idea of bricolage (French for "tinkering"): making creative and resourceful use of whatever materials are at hand. Bricolage, in short, is the "art" of recycling. In an age concerned with sustainability—of the natural environment, of green architecture, of planned obsolescence—art offers creative models of recycling, reuse, and adaptation. From the avante-garde experiments of Surrealism in the early 20th century to contemporary Trash Art, artists have revived what is considered garbage or waste into raw materials for creative expression. Art, then, is aesthetic and political. Our particular focus will be on the "aesthetics of the everyday": art as recycling (i.e., collage, assemblage, found art, and fiction) and adaptation

ENGL	227	1	American Literature: Beginnings To 1865	<p>This course will introduce students to representative writers, genres and movements in American literature from its beginnings to 1865. We will focus on the relationship between literature and national identity. We will ask: How does American literature reflect and shape ideas about places and peoples—“America” and “Americans”? How have Americans described cross-cultural encounters and how have they depicted their interactions with unfamiliar peoples? How did the circulation of ideas in America and throughout the Atlantic world, in contexts of discovery, colonialism, war, expansion, settlement, travel, revolution, nationalism, and slavery, shape American literature? How does American literature challenge, complicate, perpetuate and/or resolve enduring national tensions between individual rights, state interests, and the public good?</p> <p>Course content includes readings and other materials on the course topic that address various categories of social difference (gender, nationality, religion, ethnicity, age, sexuality, political affiliation, socio-economic status, ability, linguistic background, etc.).</p> <p>- Class discussion connects course texts and topics to current events and local histories centered on the production of social difference.</p>
ENGL	228	1	American Literature: Civil War to the Present	<p>Given its tremendous racial and ethnic diversity, and the political twists and turns of its rise from British colony to superpower, America is an endlessly complex and unpredictable nation. The way this complexity and unpredictability resolved itself during and after the Civil War is either the subject or the precondition of most of the works of literature we will read in this course. The pre- and post-Civil War social significance of race, class, and/or gender, for instance, play powerful roles in such texts on our reading list as <i>Crazy Brave</i>, <i>Sula</i>, <i>The Bell Jar</i>, <i>The Big Sleep</i>, and <i>Death of a Salesman</i>.</p>
ENGL	323	1	The American Renaissance	<p>When F.O. Matthiessen defined the “American Renaissance,” he sought to characterize American literature of the period from 1830 to 1860, specifically writings by Ralph Waldo Emerson, Henry David Thoreau, Nathaniel Hawthorne, Walt Whitman, and Herman Melville. This era of cultural production was, in fact, even more vibrant than Matthiessen’s characterization indicates. Beyond these five men, a much wider multiracial array of literary women and men were both explicitly and implicitly part of a national conversations that dominated that era, and sought to develop a literary praxis to engage questions of reform, resistance, colonialism, slavery, gender, and revolution. This course will consider the full breadth of U.S. literary production in the decades leading up to the U.S. Civil War. In addition to writings by Emerson, Thoreau, Hawthorne, Whitman, and Melville, we will also read works by Catharine Maria Sedgwick, William Apess, Emily Dickinson, Frederick Douglass, David Walker, Frances Ellen Watkins Harper, Sojourner Truth, Margaret Fuller, Jane Johnston Schoolcraft, Nat Turner, Harriet Wilson, and Theodore Winthrop. Course discusses topics such as racism and slavery in the United States.</p>
ENGL	338	1	American Ethnic Literature	<p>Students in this course will read and discuss a wide variety of literary works by American writers of different racial and ethnic origins. Major themes explored include double consciousness, cultural hybridity, critical whiteness, passing, immigration and assimilation, exclusion and marginalization, geographical and psychological displacement, and environmental injustice.</p>
ENGL	474	1	Studies in Women Writers	<p>This course will examine the characteristics of the memoir genre, exploring the ways in which 20th - and 21st - century American women writers variably represent selfhood. Because the memoir arguably moves beyond the representation of the autonomous autobiographical self to the historical events and people as well as the cultural ideologies (i.e., of gender, sexuality, race, ethnicity, and nation) that construct and contextualize identity, this course is particularly interested in the “relational” nature of identities.</p>

ENGR	285	1	Global Engineering Field Trip to Mexico	<p>Through this experience, students will learn the important exchange and partnership Mexico and the US have regarding engineering technology and processes. While in Mexico, students will visit research labs, manufacturers, and tour cultural areas. Besides the rich engineering technical visits, students will partake in cultural activities such as: Baracoa lunches, walking tour of San Miguel de Allende, dine at local restaurants, interact with local students, and partake in ancient practices. To learn to work effectively (professional, productive, culturally sensitive) as an engineer in multicultural and multidisciplinary work environments. The student will:</p> <ul style="list-style-type: none"> <li>• Develop an understanding of the global aspect of the engineering industry</li> <li>• Develop awareness of intercultural differences and similarities, and their relevance to effectiveness in the workplace (Cognitive competence).</li> <li>• Apply intercultural knowledge for self-improvement (Intrapersonal competence).</li> <li>• Apply intercultural knowledge for effective teamwork (Interpersonal competence).</li> </ul>
ENTO	320	2	Honey Bee Biology	Welcome to Texa 'A&M's introductory course on honey bee biology, evolution, management and preservation. This course is designed for both science an non-science major students, with honey bees used as a model organism to learn about the processes of science, biology, entomology, sociobiology, and the evolution of communication.
ENTO	424	1	Insect Ecology	Insect ecology is presented as a study of the influences and interactions of insect populations and insect communities on ecosystem processes that affect landscape structure, function, and change. The level of focus is the ecosystem, the levels of explanation include populations and communities, and the level of interpretation is the landscape. (1) A broad-based knowledge of the principles of ecology at four levels of integration [populations, communities, ecosystems, and landscapes], (2) an understanding of the linkages between the levels of integration, (3) an understanding of the relationship between principles of insect ecology and the scientific and applied charges of entomology, (4) a functional vocabulary of ecological terms and concepts, and (5) a fundamental background in ecology adequate for more advanced study of basic and applied principles of ecology.
ENTO	425	1	Disease Ecology	Ecological interactions that influence the distribution and abundance of pathogens, vectors, and hosts ultimately determine the spread of disease; impacts of urbanization, climate change, and other human influenced environmental changes on disease dynamics; integration of disease ecology into pathogen and vector monitoring and comprehensive strategies to reduce disease occurrence.
ENTO	435	1	Case Studies in Problem Solving	This capstone course is designed to help students develop problem-solving skills for real world situations. Entomological systems provide excellent material for gaining experience due to biological diversity, expansive scale, and importance to environmental, agricultural, and human health issues. Students are expected to identify and provide order to the components of problem solving, develop logical arguments from different perspectives, and communicate decision-making processes as a member of a problem solving team. The scale of problem solving will extend from laboratory and field, to community, state, and national levels.
EPSY	320	4	Child Development for Educators	This course is designed to provide an overview of the research and theory on child development. Students examine various aspects of development through the lens of cultural and ethnic diversity. They will compare and contrast how children from various cultures proceed through the development experience.
ESSM	102	1	Introduction to Natural Resources and Ecosystem Management	Introduction to natural resources and ecosystem system approach to wildland management; survey of the field of natural resources and related industries.
ESSM	304	1	Rangeland Plant Taxonomy	The course is designed to help students learn the basic morphology of rangeland forbs and shrubs, learn how plants are named and why names change, and learn to use and construct vegetative and floral keys for identification of plants. Proper techniques for collecting, pressing, and mounting plant specimens will be emphasized while students learn to recognize rangeland plant families using vegetative and floral characteristics. Plants that poison domestic livestock will be discussed along with their specific poisons. This course also touches on endangered plant species.
ESSM	314	2	Rangeland Management around the World: Principles and Practices	Rangeland management around the world will present an overview of rangelands; the history of their management, the many different kinds of rangelands (climates, soils, plants, animals, and products), and the management strategies and practices used to restore degraded rangelands and maintain healthy rangelands to produce the goods and services desired by society.

ESSM	351	1	GIS for Resource Management/GIS for Environmental Problem-Solving	Geographic Information Systems (GIS) approach to solving spatial problems and managing natural resources, including the acquisition, management, manipulation, analysis, and mapping of spatial and non-spatial databases; identification of natural and relevant features from various data sources; integration of relevant technologies and data; extensive use of GIS software to solve real-world problems; one graduate project required for graduate sections.
FILM	299	1	History of Film	This course examines the history of film's technical, aesthetic, and social development, within an international context, particularly in relation to wider cultural and ideological movements and with an emphasis on narrative feature-length motion pictures. Course discusses some sociological and economic movements behind certain films.
FSTC	444	1	Fundamentals of Food Law	It includes an overview of agency jurisdictions, food labeling, adulteration, food safety and food additive regulations, dietary supplement and regulations related to genetically engineered organisms, import and export, federal law enforcement provisions and practice, international food law, and ethics. This course also talks about Environmental safety.
GENE	420	2	Bioethics	The purpose of this course is to explore the scientific basis and ethical issues raised by the use of genetic, genomic, and biochemical technologies for biomedical, agricultural and environmental applications. Includes a unit specifically over climate change and biofuels.
GEOG	305	1	Geography of Texas	Geography 305 is an introductory course in regional geography that examines the cultural and physical geography of Texas. Geography as a discipline inquires about the fundamental relationships between people, places, and environments. The purpose of this course is to explore the diverse geographies of Texas as well as introduce some important geographical concepts such as region and landscape. Course has in-depth discussion of Texas's culture regions, as well as environmental characteristics and hazards.
GEOG	324	1	Global Climatic Regions	Climatological processes and their consequences for spatial distributions of climates; survey of earth's climates; relationships among climate, landforms, vegetation, soils and humans
GEOG	331	1	Geomorphology	This course is an introduction to geomorphology. We will particularly focus on the various earth surface processes and their influence on landform development. These processes comprise the physical and chemical interactions between the Earth's surface and the natural forces acting upon it to produce landforms: gravity, water, wind, and ice. The processes are determined by such variables as geology, climate, vegetation, base level and human impacts. Important class topics are human environmental impact and climate.
GEOG	398	1	Interpretation of Aerial Photography	Identification and evaluation of natural and cultural features on aerial photographs; methods for extracting information concerning land use, vegetative cover, surface and structural features, urban/industrial patterns and archaeological sites. Students will learn basic history and applications of aerial photography. Students will work in teams to interpret local historical, environmental, and cultural change as viewed with aerial photos.
GEOG	435	1	Principles of Plant Geography	This course emphasizes a fundamental concern of biogeography: the distribution of plant species and vegetation over the surface of the earth. What are the patterns, and how did they arise? Patterns of vegetation distribution result from the interaction of plants with the physical landscape, other organisms, disturbances (e.g., fires, windstorms), and the actions of human societies.
GEOG	440	1	History and Nature of Geography	This is a course about some of the ways humans have thought about geographical matters (the size, shape, and features of the earth, as well as human interactions with their natural and artificial environments), about the nature of geographical inquiry, and about what it means to be a geographer. We will look at some of the most important answers that have been given to these questions over the past 2500 years, and at some of the reasons these answers have changed. Course includes topics such as the history of environmentalism and feminist geography.
GEOG	461	1	Advanced Remote Sensing and Digital Image Processing	Geography 461/661 is an advanced level course designed to introduce students to the field of remote sensing and digital image processing and analysis. This course focuses on the fundamental information that is contained in multispectral and hyperspectral imagery, and the algorithms and approaches that can be used to extract spectral and spatial information. Students will be exposed to matter/energy interactions, geospatial data, image processing techniques, and environmental applications.

GEOG	475	1	Advanced GIS	Geography 475 is an advanced undergraduate course designed to introduce students to advanced topics related to geographic information science (GIScience) and geographic information systems (GIS). This course focuses on the theory and concepts of representation, data integration, information synthesis, and spatial analysis and modeling for information production and. It will also provide students with exposure to using GIS software technology to further promote understanding of geospatial data manipulations, spatial statistical analysis, empirical and deterministic spatial modeling, and the use of geospatial technologies for applied problem solving. Includes a lab on Land-change science.
GEOL	101	2	Principles of Geology	This course explores the nature of the Earth and the geologic processes that shape the Earth through time.
GEOL	104	1	Physical Geology	Physical and chemical nature of the Earth and dynamic processes that shape it; introduces physical and chemical principles applied to the Earth. Provides a survey discussion of water and climate as well.
GEOL	478	1	Earth Science Modeling	Techniques for building, solving and analyzing numerical models applied to a wide variety of problems in geology, geochemistry, geobiology and geophysics; derivation and scaling of conservation laws; finite difference and finite element techniques; laboratories will involve programming models in MATLAB.
GEOS	470	2	Data Analysis Methods in Geosciences	The student will be taken from conceptualization of a scientific problem, data collection and processing, to appropriate analysis techniques, and finally to data archiving and management. The approach is multi-disciplinary with emphasis on real-world applications from environmental, atmospheric, and oceanographic sciences.
GEOS	481	3	Seminar	Acquaint students with current research themes in the environmental field.
HEFB	450	2	Student Teaching	Students experience a practicum in an accredited public school classroom where techniques of instruction are developed for identified teaching field(s). Implementation of appropriate instructional strategies for assigned student population is observed. Students demonstrate appropriate use of humor and enthusiasm, dresses and conducts self in a professional way; accepts and responds to constructive criticism; establishes a climate of courtesy/respect and respect for diversity.
HIST	221	1	History of Islam	The aim of this course is to introduce students with little or no prior knowledge in Islam to some of the main themes in Islamic history and civilization from the time of Prophet Muhammad (ca.600 C.E.) to ca. 1450 C.E. We will proceed chronologically and thematically with focus on political, religious, social and cultural events of significance. Our goal is to establish an overview of the history of Islam from its beginnings up to 1400 C.E. with a focus on changing interpretations of concepts in different polities and societies. Our goal is to observe, evaluate and think critically about the formation of the Islamic tradition as well as its transformation over time across different regions and cultures, alongside its interaction with other world religions.
HIST	300	1	African American History	The purpose of this course is to introduce students to the history of African Americans before 1877. This course will examine and place African American history within the context of important social, economic and political issues.
HIST	305	1	Mexican American History 1848 - Present	Social, economic and political evolution of Mexican Americans from 1848 to present; adaptation to a harsh and isolated frontier; land tenure systems; conflict in the new Southwest; change and continuity in society; immigration and settlement of Mexicans; emergence of various political movements; current issues.
HIST	322	1	History of the Iberian World	This course will explore the history of the Iberian World, from the middle ages to the nineteenth-century. We will start by identifying and discussing the Iberian peninsula and its peoples and then follow by exploring Iberian influence as Spanish and Portuguese explorations led these two kingdoms to expand their influence throughout the globe. We will consider the diversity contained within both Iberian nations, as well as the diversity of the people and places they encountered, from Mexico to Brazil, to Angola, Florida, India, China, and the Philippines. What was the nature of Iberian empire, and how did it change over time? Who were the participants in the creation of this empire? Can we even talk about one Iberian empire, given its vast geographic expanse and the variations in human and physical geography that characterized it? Finally, we will consider the ways in which the legacies of Iberian expansion and empire continue to influence our everyday world. This course also has lectures on environmental change and race relations.

HIST	345	1	Modern Africa	This course will examine selected topics in the history of Africa since 1800. The principal aim of the course is to provide students with a historical foundation for understanding contemporary Africa. Much of what is reported in the popular media about events and trends in Africa today lacks historical context and is rooted in hoary American stereotypes about Africa and Africans. In an effort to correct these misperceptions and to expand our knowledge of the people of this fascinating continent, we will examine Africa's history during three crucial periods: the 19th century up to about 1880 (that is, the period prior to the European "partition" of Africa); the colonial period of European imperial rule (roughly 1880 to 1960); and the post-colonial or "national" period (1960 to the present) of independent African states. Throughout the course, emphasis will be placed on the great diversity of Africa's historical experiences over the last two centuries.
HIST	363	1	The History of Science	The course examines the growth of the physical and life sciences from colonial times to the present. Discussion will focus on the major contributions of scientists and the spread and impact of their ideas on society.
HIST	365	1	Religion in America to 1860	There is no doubt that religion has played a critical role in American history from the beginning. It justified the original efforts at colonization, and was interwoven in the daily lives of early Americans, playing a role in everything from politics to social reform, to gender relations, and in relations between Europeans and non-Europeans. This course provides students with an overview of the main developments and issues in American religious history from the time of the first colonists to the eve of the Civil War. Major themes include forms of religious knowledge, religion and cross-cultural relations, conversion, slavery, resistance, religion and social change, evangelism, witchcraft, and the constructions of race and gender.
HIST	441	1	History of Mexico since 1821	This senior level undergraduate course will survey the chronology of Mexico's history since the call for Independence up through the consolidation of the Revolution party (PRI), its decline, and the current drug turf wars. While this is a content-driven course, we will still address issues of historiography and research methods. In classroom lectures and readings, attention will be given to the ways in which concepts such as social class, honor and virtue, gender, race/ethnicity, religious orientation, and space and place (particularly the border region) shaped the process of Mexican history.
HLTH	222	1	Concepts in Peer Health Education	Preparation as peer educators and campus community leaders; experiential learning; includes various health topics, program development, presentation and public speaking, communication and group facilitation. Enhancing cultural competency. Learning how to educate peers about health and wellness.
HLTH	231	3	Healthy Lifestyles	This course will examine health issues relevant to college students. Areas of focus will include: finding the right balance of wellness and dimensions of health; creating healthy and caring relationships; avoiding risks from harmful habits; building healthy lifestyles; preventing and fighting disease; and facing life's challenges.
HLTH	342	6	Human Sexuality	The course will focus on three primary goals: enhancing knowledge, increasing comfort, and facilitating communication about sex. The success of this course will be achieved in the students' ability to translate what one knows intellectually into the realm of personal relationships. Students should learn to choose what is responsible and right for them. A healthy respect should be gained for the differences among individuals and their perspectives.
HLTH	410	4	Health Programs in the Workplace	Careful examination of strategies to design, implement and evaluate exercise and health programs in worksites; including health risk assessment, marketing protocol, needs assessment, corporate culture issues, policy development, and cost-benefit analysis.
HLTH	440	1	Contemporary Issues for Community Health	This is a preparatory course for advanced students in the Community Health Internship program. This is considered one of the "writing courses" for the division of Health.
HORT	301	1	Garden Science	Identification, propagation, soil management, fertilization, growth control and protection of common garden plants: indoor ornamentals, landscape ornamentals, fruits and vegetables; special topics include home landscaping, container gardens, bonsai, herbs and medicinal plants and hobby greenhouse management. The effects of organic and non-organic practices on the garden ecosystem.
HORT	315	1	Issues in Horticulture	The course describes and analyzes factors that impinge on modern horticultural systems, including technological, environmental, economic, societal and ethical issues. While a brief overview of current practices and technical background information is presented, the focus is on critical issues that are affecting managerial decision-making in horticultural operations and how graduates can prepare themselves to function in a continuously changing business environment.

HORT	400	1	Field Studies in Horticulture (Study Abroad)	On our Coffee Origins Service Learning Trip, students will learn about all aspects of coffee production through an immersive community-based experience, including coffee cultivation and processing and culture and history of coffee in Guatemala. Through hands-on activities and a service project, they will get a glimpse of local life while gaining an in-depth appreciation for the lives and challenges of small- scale producers and successful approaches to community based development.
HORT	426	1	International Floriculture Marketing	This course provides an overview of the importance, cost, and opportunities in marketing floral products. It is divided into five modules: floral products and economic impacts; the floral supply chain; the maturing floriculture market place; international floral trade; and, postharvest handling to ensure quality and shelf-life. Touches on economic sustainability.
IBUS	401	2	Global Marketing	Marketing strategy is vital to all types of organizations (large/small, profit/nonprofit, goods/services, industrial/consumer). The strategies developed and implemented are contingent on the marketing environment. The international arena is one of the most complex environmental contexts for firms to understand and master. In MKTG/IBUS 401 we will explore the dynamics of global marketing and examine how marketing concepts can be applied in these arenas. Discusses topics such as ethics and social responsibility, many facets of economic sustainability.
IBUS	450	5	International Environment of Business	International business and globalization issues are increasingly important factors facing managers of U.S. based organizations. This course serves as an introduction to the global business environment, focusing upon material designed to broaden students' awareness of international markets and trends, trade and financial relationships between countries, and operational aspects of entering and conducting business in foreign markets. Concepts and principles from other business courses are applicable in this course, though they are approached from a perspective of international contexts. Corporate Social Responsibility is a focus on this course.
IBUS	452	1	International Management	This course is a survey of the field of international management. It is divided into four parts. The first part of the course examines the global manager's environment (e.g., political, economic, legal and technological environment) as well as ethics and CSR issues. The second part of the course focuses upon the cultural context of global management (e.g., role of culture, cross-cultural communication, negotiation and decision making. Finally, the third part of the course surveys the major issues in global human resources management (e.g., staffing, training, and compensation, management development and motivation).
IBUS	489	1	Southern African Entrepreneurship, Non-Profit, & Business Environments	International business and globalization issues are increasingly important factors facing managers of U.S. based organizations. African markets have recently become some of the fastest growing markets in the global economy. This course serves as an introduction to the southern African business environment, the role of non-profit entities in southern Africa, and the opportunities and challenges for entrepreneurs in the region. Additionally, the course will provide a strong introduction to the history, culture, politics, economic issues, and infrastructure of the region. Each student should develop a strong awareness and appreciation of the southern African business environment. Each student should become acquainted with basic cultural, political, and economic differences that exist when comparing U.S. domestic markets with southern African markets.
IBUS	457	1	Global Entrepreneurship in Cuba	This program will provide students an opportunity to experience entrepreneurship focused on Cuba. Students will analyze the attitudes and behaviors of small business owners in Cuba, and identify products and services that can be either replicated or imported to the US or products or services that the US may have that might be exported to Cuba. Emphasis will be given to idea generation and opportunity recognition and will be enhanced by field trips and prearranged meetings with small/medium sized businesses in Brazos County. Students will evaluate and report on potential trade opportunities that they have observed. Touches on cultural and social aspects of Cuba as well as some topics in economic sustainability.
INST	362	8	English as a Second Language Methods I	Basic principles of language acquisition, multiple approaches to second language acquisition; individual differences and second language acquisition; stages of second language development; multiple approaches to assessment. Includes lessons on multiculturalism and diversity.
INST	210	2	Understanding Special Populations	referral, assessment and categorization of special populations including physical, cognitive and affective characteristics; cultural, ethnic, economic and linguistic differences; giftedness; special education and compensatory programs; awareness of legislative history that results in rights for special populations. Diversity education

INTS	201	5	Introduction to International Studies	Introduction to the field of international studies through examination of diverse processes of globalization; interdisciplinary survey of the social, political, economic, and cultural patterns that have defined the modern world; basic concepts and frameworks for analyzing global events and understanding the current international situation.
INTS	205	1	Issues in International Studies	This course provides students with a diverse exposure to the issues and questions discussed in the broad field of International Studies. It will give students exposure to noted international academics and professionals. Students will be expected to attend discussion sessions, as well as lectures and events within the course of the semester and provide a written reaction paper to each.
INTS	251	1	Contemporary Issues in the Middle East	The purpose of this course is to equip the students with the theoretical and empirical knowledge necessary to understand the region, its culture, society and politics within the historical context. It will address set of enduring issues in Middle East international relations such as the Arab Spring, recent uprisings in Turkey, civil war in Syria, rise and evolution of ISIS and global jihadi terrorist organizations, the evolving US and Russian role in the region, the Arab-Israeli Conflict, the challenge of Iran and the war in Iraq.
ISEN	210	2	Fundamentals of Industrial Engineering Design	Engineering design for product development, problem definition and need identification, information gathering and concept generation, decision making and concept selection; industrial engineering concepts including design for manufacturing, assembly, sustainability and environment; economic decision making and cost evaluation; risk, reliability and safety; quality; robust design and optimization.
ISEN	330	2	Human Systems Interaction	This course introduces principles of human factors and ergonomics, emphasizing human capabilities, limitations, and tendencies, and design to support humans in sociotechnical work systems. Topics include human information processing, physiological and biomechanical functioning, and implications for design of the workplace and jobs in that workplace. The field of Human Factors and Ergonomics (HFE) is interdisciplinary, with applications wherever humans interact with equipment in a system context. Examples will be drawn from many domains that involve humans interacting in systems, such as manufacturing, medicine, aerospace, ground transportation, and computer interaction. Touches on topics such as air quality and environmental hazards, and solutions to mitigate them.
ISEN	350	2	Quality Engineering	Quality Engineering is a strategic approach to implementing quality, process and business improvement methods through the use of statistical and other data analysis tools. Total Quality Management (TQM) and Six Sigma approaches are utilized to define measure, analyze, improve and control processes. Principles of lean engineering are combined with six sigma methods to achieve meaningful quality impact and waste reduction. Control charts, process capability analysis and determining sigma quality levels are covered. Laboratory exercises provide exposure to basic metrology, applied statistics, lean principles and process capability. Lean and six sigma methods are used to reduce waste and provide variance reduction strategies. Focuses on reducing waste.
ISEN	460	1	Capstone Senior Design	All of the work in this course is related to the project you will take on for a client. The project must be an exemplar of engineering design that includes identification of a problem; development, analysis and evaluation of alternative solutions; and recommendations for and, where possible, development of systems improvement tools. Team projects must also include consideration of and actively address: realistic constraints and provide a thorough review of applicable standards (OSHA, IIE, EPS, etc...) for the project to be considered complete. The goal of each project is to provide you an opportunity to apply your experience and training and provide customers a product or solution that is as complete as you can make it and high-quality. Has a few projects that touch on sustainability.
JOUR	365	1	International Communication	This course is designed to familiarize students with an historical and theoretical approach to International Communication. Along the way, we will cover the issues that normally are considered under that rubric, including international information flows, global media systems, and the role of culture and communication in globalization. We will look in depth at a few case studies of international communication issues in an attempt to better understand the way in which global media and international communication shape global politics. We will cover a variety of issues in international communication, including mass media, international and cross-cultural audiences. Theoretical, pragmatic, political and ethical issues, including cultural differences, comparative media systems, development communication, patterns of world news flow, political propaganda, impact of international advertising and other issues.



KINE	285	3	Learning Community	The purpose of this course is to increase student academic achievement/retention and direct professional development/growth through specific academic skills development, involvement in group study sessions, extracurricular activities and group support. This includes enhancing diversity awareness through attendance of International Appreciation week activities.
LAND	101	2	Introduction to Landscape Architecture Practice	The course explores and evaluates the diversity of landscape architectural education and practice as both a discipline and a profession. It defines traditional practice forms and examines evolving and expanding interdisciplinary opportunities for future landscape architects. Discusses urban planning, water management, green roofs, and other sustainable topics.
LAND	240	2	History of Landscape Architecture 1	The course focuses on how the ideas, values, beliefs, and philosophical positions of a particular set of historical people are reflected in the visible landscape. It takes the assumption that as humans interact with nature they write their unwitting autobiography. This tastes, styles, behaviors, and philosophies of particular persons within a given time period, within a given region are then directly reflected through the design of the built and natural environments.
LAND	489	1	Landscape Digital Painting	The outcomes of the learning objectives in this course include: 1. To refine the skill of virtual space and form arrangement, as a means to resolve conflicting functional relationships and creating desired visual outcomes. 2. To introduce digital design process and methods with an emphasis on developing students' creative problem-solving ability, including creative attitude, critical thinking, place sensitivity, analytical skills, and evaluation & synthesis skills. Department of Landscape Architecture + Urban Planning • Texas A&M University 2 LAND-689/500, SPRING 2017 3. To develop an advanced understanding of the natural and cultural systems, forces, and dynamic processes that affect visual communications. 4. To learn how to observe, map, and trace human behaviors and cultural data systematically, and incorporate the findings from the observation data into visual design solutions. 5. To introduce fundamental site design concepts and principles required in dealing with the following possible site design elements: a. Human, animal/wildlife, vehicular circulation systems and access, both in motion and stationary; b. Architectural structure siting/location to integrate with other landscape features and the overall setting; and c. Landform and planting materials to create spaces that meet functional and aesthetic requirements. 6. To introduce site- and culture-specific environmental-scape design approaches and principles required in creating sensitive and culturally appropriate design solutions. 7. To explore typical design issues involved in visual design projects and various physical environments and social contexts, with an emphasis on the application of design approaches to address these contexts. 8. To further develop the students' ability to communicate effectively their ideas graphically and verbally, with an emphasis on developing visual thinking and graphic problem-solving skills, especially with quick sketch methods as a tool to generate, assess, and communicate ideas. 9. To develop the students' self-learning skills, including abilities to gather information efficiently, build on technical experience, and to use professional design references.
LBAR	181	4	First-Year Seminar in the Liberal Arts	This course will be taught as a seminar, which means that the goals of the course are to foster discussion, encourage social criticism and critical thinking, and develop lifelong habits of questioning, thinking about, and discussing social issues.
MASC	351	4	Problem Solving In Mathematics	Problem Solving Strategies in math and science; evaluate conjectures and arguments; write and collaborate on problem solutions; pose problems and conjectures; construct knowledge from data; develop relationships from empirical evidence; connect mathematics concepts; readings, discussions, and analyses will model and illustrate mathematics problem solving and proofs. One of the objectives is to use knowledge relating to issues of equity, affect and diversity to excel in the Teaching for Equity Challenges associated with the rich, open-ended mathematics problems.
MASC	371	4	Inquiries in Life and Earth Sciences	Integration and connections among topics in life and earth sciences – diversity, natural selection, ecosystem development, earth's features, and weather systems; inquiry emphasizing experimental design, data analysis, and collection; use of models in the life and earth sciences.
MEEN	402	2	Intermediate Design	Product detail design and development process including case studies; project management, marketing considerations, manufacturing, detailed design specifications; failure modes, application of codes and standards, selection of design margins; product (component) development guidelines; intellectual property, product liability, sustainability, and ethical responsibility.

MGMT	211	4	Legal and Social Environment of Business	Role of government in business and society; analysis of social policy and legal institutions; ethical problems in management decisions; administrative law; antitrust law; employment and discrimination law; regulation of business transactions; protection of intellectual property rights; regulation of information in markets; including securities and product safety; international business law.
MGMT	432	1	Managing the Nonprofit Organization	The course focuses on the broad trends shaping the nonprofit sector. Nonprofits are the primary drivers of social change and play a key role in society and in the economy providing a wide array of goods and services. The course is designed to give students an overview of the complex management challenges that confront nonprofits today as they try to balance their mission and values against the requirements of effective management with limited resources. Students will learn to recognize the essential features of effective nonprofit organizations and how to manage them; understand the laws and regulations governing them; and identify effective boards, fund raising strategies and recruitment and management of volunteers and staff.
MGMT	465	1	Corporate Governance	The corporate governance structure specifies the distribution of rights and responsibilities among the different participants in the organization – such as the board of directors, managers, shareholders and other stakeholders – and lays down the rules and procedures for decision-making. This course will cover the definition, history and evolution of corporations, the roles of and relationship between the shareholders, board of directors and management. It will introduce the issues of agency cost, shareholder activism, executive compensation and performance evaluation. As businesses operate increasingly in a globalized marketplace, various aspects of international corporate governance will also be covered. Additionally, ethical issues, such as conflict of interest, insider trading and issues of corporate social responsibility will be included in the framework of this course.
MMET	206	1	Nonmetallic Materials	Be able to define, recognize, and describe common non-metallic materials (polymers, composites, ceramics, and semiconductors) concerning their properties, manufacturing processes, and typical applications. To understand the environmental impact, life cycle assessment, and carbon footprint of a product.
MUSC	301	3	Performance in World Cultures	Application of the tools of performance studies to explore the enactment of the arts in world cultures and the ways the people of every society express themselves in performance; examination of different genres of performance through music, theatre, verbal art and dress. This course examines a variety of global performance traditions. We begin with an understanding that both aesthetic and quotidian performances reveal much about the individuals, groups, and cultures that create and experience them. This course will challenge students to discard their biases in favor of openmindedness and differing perspectives. We will identify the customs and particularities of several performance traditions and strive to comprehend them from a culturally relative position, which will thus enrich our own worldviews.
NUTR	202	2	Fundamentals of Human Nutrition	This course provides an overview of the fundamentals of human nutrition with the goal of enabling students to think critically while exploring the role of food and nutrition in health, disease and the environment.
NUTR	300	1	Religious and Ethnic Foods	Understanding religious and ethnic foods with application to product development, production, and nutritional practices; emphasis on different food rules and priorities with attention given to different religious and ethnic groups within the US and around the world.
OCNG	251	12	Oceanography	Overview of the ocean environment; interrelation of the subdisciplines of ocean sciences; importance of the ocean to human beings; human impact on the oceans.
OCNG	410	1	Physical Oceanography	Oceanography is an interdisciplinary science that deals with the geological, biological, chemical, and physical properties of the ocean. This course provides an introduction to physical oceanography, primarily for students majoring in ocean engineering, environmental geosciences, and meteorology, but also for students majoring in other physical and natural science disciplines. The main objective of this course is to gain an overview and a basic understanding of the physical processes governing the ocean, covering a wide spectrum, from coastal currents to the global ocean circulation, from atmosphere - ocean interactions to deep-ocean hydrographic properties, from polar to tropical oceanic features, from ship-borne in-situ measurements to satellite remote sensing products, from basic theories to their application in mathematical-numerical models. It should be noted that physical processes of the ocean are a primary driver of the global climate system, and thus key to understanding climate change.

OCNG	420	1	Introduction to Biological Oceanography	This course will focus on biological aspects of the ocean: diverse marine environments, productivity and the carbon cycle, living marine resources, fisheries, marine mammals, and environmental concerns such as climate change, pollution and harmful algal blooms.
OCNG	430	1	Marine Geology	At the end of the course, students will • understand the processes that form oceanic crust and ocean basins, govern sediment distribution, and shape the continental margins • describe the climate and oceanographic history recorded in marine sediments • and most importantly, understand how to access, evaluate, interpret, and apply the various types of data used to investigate geological oceanography
PERF	489	2	Performing the U.S. South	n. This course will explore how The South, Southernness, and Southerners have been portrayed in television, movies, theater, music, cartoons, literature, tourism, the news, political discourse, sports, and public and private events (like celebrations, rituals, parades, dedications, etc.). We will consider how regional identities, race, gender and sexuality, religion, politics, class, educational level, and nostalgia are framed and perceived through these representations. What are the consequences or resonant effects of these cultural constructions? How did perceptions and stereotypes of Southern culture develop, and how have they been resisted, challenged, and contested?
PHIL	283	1	Latin American Philosophy	This course is an introduction to the philosophical thought and experience of Latin America. It explores the relation between philosophy, identity, culture, and history. The emphasis is on contemporary thought and philosophical issues in relation to the "Latino/Hispanic" experience. We will study philosophical writings of some of the most important contemporary Latin American Philosophers as well as get acquainted with the common historical circumstances that have shaped the Latin American experience.
PHLT	303	1	Social Context of Population Health	This course explores social determinants of population health and the socio-cultural roots of health improvement. It discusses the socio-economic, behavioral and other factors that impact population health and contribute to health improvement and health disparities. Topics include socio-cultural definitions and perceptions of health, wellness, and healing; cultural, social, and individual values and their impact on choices and behaviors; macro and community dynamics; socio-cultural impact on determinants of health; socio-economic determinants of health; protective effects of social networks, social norms, and cultural belief systems; disease stigma; cross-cultural and global comparison case studies; social context of public health policy; cultural competency; social biases and institutional discrimination; equity and social justice; the balance between individual and social benefits, rights, and restrictions; key concepts of sociology and anthropology for public health practice; basics of social behavioral change theories; impact of social networks, leadership structures, opinion leaders, and change agents.
PHLT	309	1	Population Health Promotion	The purpose of this course is to discuss major issues in population health promotion. Topics include an application of social determinants of health such as the socio-economic, behavioral, and other factors that influence population health promotion. It also describes public health planning models and how they can be used for health promotion. The course will help students identify and address major health-related needs and concerns of populations.
PHLT	412	2	Health Policy and Advocacy	This course is designed to help students become familiar with basic concepts of legal, ethical, economic, and regulatory dimensions public health policy, and the roles, influences, and responsibilities of the different agencies and branches of government. It also discusses advocacy for protection and promotion of the public's health at all levels of society; public policy processes at local, state, and federal levels; stakeholder and interest groups; community mobilization and activism, policy analysis; economic, social justice, ethical, health status and other areas of policy justification; evidence-based policy. Through case studies, selected public health policies are discussed.

POLS	306	2	State and Local Government	The United States is fast becoming a multiracial, multicultural, and multilingual country. The literature is reporting that ethnic minorities are increasingly becoming a larger and larger proportion of the U.S. population and its workforce. Some data now show that Texas is a minority-majority state. These demographic changes pose a number of tremendous challenges for Texas and American society in general and the public sector in particular. The challenges for the public sector include maintaining a delicate balance between quality, human well-being and public service policy and programming, and public service delivery. Indeed, both Texas and the United States are faced with major challenges in how to grapple with diversity in all facets of life and in all institutions, including political, government, and business institutions. Therefore, it is no accident that public organizations in the U.S. are concerned about both workplace diversity and diversity in society. The concept of diversity not only takes into account race, ethnicity and gender. It also includes other ways in which individuals are different from one another, including age, sexual preference, and disability. Diversity may be viewed as differing cultures, languages, ethnicity, race, sexual orientations, religious sects, abilities, classes, ages and the origin of individuals in an institution or community.
POLS	353	2	Constitutional Rights and Liberties	Legal issues, controversies and significant developments in constitutional rights and liberties, and the impact of these developments upon American politics, culture and social institutions.
POSC	313	1	Advanced Food Bacteriology	Microbiology of foodborne human pathogens of food animals, raw and processed food, and human disease; methods to control incidence of pre- and post-harvest contamination. At the completion of this course, students will be able to <input type="checkbox"/> demonstrate an understanding of important food and related microorganisms in terms of their physiology and functionality in various environments <input type="checkbox"/> collect, organize, display, interpret and communicate observations and data from microbiological analyses; analyze and critique scientific literature <input type="checkbox"/> demonstrate a practical understanding of important issues in food, industrial, and environmental microbiology in their daily lives
PSYC	210	2	Human Sexuality	The purpose of this class is to examine theories and research concerning human sexuality. We will examine topics underneath this umbrella term including (but not limited to) sexual behavior, reproduction, gender roles, sexual orientations, sexual relationships, sexual development and sexual violence. This course will also consider the unique sexual experiences of people from a variety of cultures, ethnicities, sexual orientations, social classes, ages, and physical abilities.
PSYC	285	1	Psychological Aspects of Human Sexuality	nterface between human sexuality, reproductive development, and gender roles across the lifespan; theoretical and research literature promotes understanding of hormonal influences, learning processes, cultural differences, sexual response, and love and attraction. By the end of this course, you should be able to...1. Identify how culture influences sexuality and sexual behavior. 2. Explain biological processes related to sex and reproduction across the lifespan. 3. Identify sex-related health problems and strategies for reducing or treating those problems. 4. Discuss the wide variety of sexual behavior, feelings, attitudes, and identities. 5. Describe sexual violence and "sex for sale" and some of their causes. 6. Communicate about human sexuality with a variety of audiences.
PSYC	489	1	Self and Identity in the African Diaspora	This seminar will explore psychological perspectives on the inherently social, dynamic, multifaceted, and constructed nature of self and identity among African-descent peoples living in the United States. We will primarily explore the psychological aspects of self and identity through readings, writing, discussions, and class activities that explore the lifelong development of a racialized self concept, how collective narratives of blackness are formed and internalized over time, and how living in multicultural contexts can promote identity safety and/or threat.
RDNG	472	1	Teaching Writing in Elementary and Middle Grade Classrooms	Focuses on multicultural and interdisciplinary literature appropriate for middle grades students; implements and evaluates effective multicultural, interdisciplinary instruction through selection, use and development of literature in middle grades classroom.
RELS	312	1	Contemplation in the Modern World	Contemplative Practices in the Modern World. Credit 3. Interdisciplinary approach to examining contemplative practices: origins in philosophy and religious traditions, goals and techniques of contemplation, contemplation in relation to cultural and social problems or needs. Helps develop social responsibility and mental flexibility.

RELS	326	1	Sociology of Religion	In this course we will examine religious phenomena from a sociological perspective. We will begin with the major sociological theory of religion, by Emile Durkheim, as set forth in his book, <i>The Elementary Forms of the Religious Life</i> (1912). We will proceed to summarize other important social scientific theories on religion, including Freud in his <i>Future of an Illusion</i> and William James in his <i>Varieties of Religious Experience</i> . We will also touch on Weber, Marx, and Guyau. Finally, we will apply these sociological and theoretical insights to selected problems, as set forth in your textbook--church membership, the rise of cults, variations in church attendance, masculine/feminine differences in religion, the relationship of religion to capitalism and social character in general, etc.
RENR	405	1	GIS for Environmental Problem Solving	Interdisciplinary approach to train students to integrate GIS and relevant technologies for environmental problem solving; helps students relate learning to real world situations; students conceptualize, develop and manage projects using real data; one term project required.
RENR	410	1	Ecosystem Management	The course focuses on concepts and practices relevant to the development of Ecosystem Management Plans at various spatial scales.
RPTS	201	3	Foundations of Recreation, Park and Tourism Sciences	This course will provide students with an understanding of the development of theoretical foundations of the recreation and leisure field. We will also examine the professional philosophy, present status, prospects for the future and the role of parks and recreation in modern society.
RPTS	301	2	Leisure and Outdoor Recreation in American Culture	This course is an introduction to the fundamental concepts of leisure and outdoor recreation and how they influence us as individuals and as a society. The course reviews the influence of leisure throughout life. More specifically the use of leisure to experience the outdoors (nature) and its influence on the human condition is examined. The course also examines the role that nature and the outdoors have played in shaping unique aspects of American culture.
RPTS	307	1	Methods of Environmental Interpretation	This course focuses on the communication processes and practices used to explain and interpret the special characteristics of natural and cultural resources in parks and tourism destinations for visitors. Conceptual principles for planning interpretive and educational programs, and techniques for analyzing and disseminating information through various media (personal interactions, oral presentations, exhibits, publications, and other programs) will be discussed. We will examine the delivery of interpretive messages across a variety of user groups, and strategies for programming interpretive services at leisure, recreation, and tourism sites.
RPTS	370	2	Youth Development Organizations and Services	Changing views of adolescence and youth culture in the United States; developmental assets and principles of developing positive youth development supports, opportunities and services; mentoring and staff development for youth serving agencies; goals, program emphases, administrative methods and membership of major youth serving organizations.
RPTS	423	2	Tourism Management	Management issues and tools related to the travel and tourism industry; history, planning, operations, leading, directing and controlling tourism businesses; complexity and scope of tourism systems; issues related to ethics and sustainability; managing tourism in different environments; roles of technology and information technology; future of tourism.
RPTS	476	1	Leadership for Outdoor Recreation	Course will cover leadership principles related to outdoor recreation; classroom instruction and experiential learning; skills training through field trips; risk management planning, environmental education, group facilitation, and trip planning. Course will cover outdoor recreation leadership principles for youth and adults.
RPTS	489	1	Visitor and Resource Protection I	Fundamental values and operations of the National Park Service; communication, leadership and conservation skills and practice needed for employment with federal park agencies; physical fitness training. Students will be prepared through this course to successfully participate as interns and future employees in the National Park Service. The course focuses on developing the student's ability to fully contribute to National Park operations. The class content is based on the National Park Service Universal Competencies. In 1994, The National Leadership Council approved the NPS Employee Training & Development Strategy. This Strategy set a direction for NPS Training. There are eight Universal Competencies; Mission Comprehension, Fundamental Values, Agency Orientation, Communication Skills, Resource Stewardship, Problem-solving Skills, NPS Operations, and Individual Development and Planning.
SCEN	201	1	Self-Directed Experiences with Adolescents	Study of adolescents in diverse school and community settings; issues in physical, mental, social and emotional development; issues related to racism, sexism, and cultural diversity; development, presentation, and defense of portfolio required.

SCSC	309	1	Water in Soils and Plants	This course will address fundamental aspects of plants' need and use of water, and issues related to supply and sustainable use of that water. Discussions will focus on soil water movement and storage, transpiration and water flow in plants, and environmental and physiological control of plant water use. Further, this course will explore irrigation options including scheduling irrigation based on plant demands for water, and issues related to water quality and water policy. Laboratories are designed to reinforce key topics, and to allow students to gain practical experience in measurement and analysis of soil and plant water relations.
SCSC	427	1	Sports Field Construction	In this class you will gain knowledge, skills, and experience in designing and constructing or renovating a turfgrass-based sports field. Knowledge will be developed through case studies with visits to model fields; guest lecturers from sports field owners, designers, and construction company managers; interaction with peers and industry professionals. Skills and experience will be developed through hands-on construction of a small-scale sand-based sports field. Talks about sustainable engineered ecosystems, water management, and social responsibility.
SCSC	458	1	Watershed and Water Quality Management	To acquaint students with the basic principles of water quality management, with particular emphasis on nutrients and the watershed-level approach. ☐ To introduce state and national policies on water quality ☐ To promote discussion within the group on nutrients and water management
SCSC	489	2	Weed Management and Ecology	This is a senior level course designed to provide a fundamental understanding of the principles and practices related to weed management in various production systems including agronomic, turf, horticulture, range, and forestry systems. The capstone assignment will include a weed management plan encompassing weed identification, identifying herbicide mode of action being applied, herbicide labels, rates, rotation limitations, application restrictions and cost of applications. Sustainability and water management are major focuses.
SOCI	205	10	Introduction to Sociology	This course provides an introduction to the discipline of sociology. While there are many definitions of sociology, as the quote from Bourdieu suggests, sociology is fundamentally about rethinking "common sense." Sociological research at times confirms and sometimes challenges commonly held views about society. The goal of this course is to expose you to how sociologists study society and the ways that society structures our lives. To that end, most of our time will be spent reading some of the best, well-written research on current debates and themes in sociology.
SOCI	304	2	Criminology	Criminology is the scientific study of crime and deviance. This course explores sociological explanations of crime, deviance, and social control in order to understand, contextualize, and analyze criminal behavior. In short, this is course about crime and its causes. Special attention will be paid to: the idea of social control (formal and informal) and the social contexts of crime and violence such as families, schools, and neighborhoods.
SOCI	311	1	Social Change	The questions we try to answer in this course: ☐ What is social change? ☐ What causes social change? ☐ What are the consequences of social change? We focus on different social changes, such as demographic change, cultural change, social movements and collective action, transitional societies, and changes due to technological advances. The course will focus both on changes in the US and elsewhere: you will get a chance to think about social change both in local and in global terms.
SOCI	312	1	Population & Society	The causes and implications of major population trends.
SOCI	326	1	Sociology of Religion	In this course we will examine religious phenomena from a sociological perspective. We will begin with the major sociological theory of religion, by Emile Durkheim, as set forth in his book, The Elementary Forms of the Religious Life (1912). We will proceed to summarize other important social scientific theories on religion, including Freud in his Future of an Illusion and William James in his Varieties of Religious Experience. We will also touch on Weber, Marx, and Guyau. Finally, we will apply these sociological and theoretical insights to selected problems, as set forth in your textbook--church membership, the rise of cults, variations in church attendance, masculine/feminine differences in religion, the relationship of religion to capitalism and social character in general, etc.
SPAN	411	1	Contemporary Hispanic Society & Culture	Cultural, economic, and political aspects of present-day Hispanic societies, and treatment of issues in the media; conducted in Spanish
SPED	302	1	Instructional Design for Students with Disabilities	Familiarizes pre-service teachers with research associated with effective teaching; designing and implementing of instruction for students including those with mild to moderate disabilities; designing and managing environments and materials.

SPMT	304	3	Psychological Perspectives on Education	This course examines the relationship of psychology to sport and exercise. Topics include history, application of learning principles, social psychology, personality variables, psychological assessment, youth sport, and diversity issues in sport and exercise.
THAR	201	4	Introduction to World (Non-Western Theatre) Theatre	The course is designed for a general student population that will acquaint you with theatre (broadly defined) and drama of Asia, Africa, the Middle East, Latin America and the Caribbean.. The exploration will: 1) survey the diversity of world cultures that produce rituals, thatrical events, plays, and a variety of performances. 2) Investigate how the cultures of other countries influence Western theatre.
UGST	311	2	U scholar Exploration Group	UScholar Exploration Group is a one-credit-hour seminar course for students in the University Scholars program. Students in at least their second semester with the program will enroll in one Exploration Group per semester. The topic of this Exploration Group is Intelligence. We will seek to understand different definitions of intelligence and expand our understanding of intelligence to include, among other traits, athletic ability, military information, and social skills. We will discuss psychology and brain functions with professors and researchers, examine our own attitudes towards unconventional "ways of knowing," and critique the validity of IQ exams and similar assessments. Addresses stereotypes.
URPN	325	3	Introduction to GIS in Urban and Regional Planning	Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environmental studies, transportation and hazard management; based on learning through class projects.
URPN	330	1	Land Development I	This course is intended to introduce students to basic concepts of the land and real estate development process. Development is a human activity serving people on a dynamic process of creating and re-creating the built environment. The physical and financial aspects of this process are the focus of this course. At the end of the semester students should be able to define local real estate needs locally and have the tools to assemble a technical team able to lead the development process. Discusses social, environmental, and economic impacts of land development.
WFSC	301	1	Wildlife & the Changing Environment	Using an ecosystem approach, this course analyzes changes in the North American environment; effects of these changes on wildlife populations; and reviews areas of major, current concern
WFSC	403	1	Animal Ecology	Concepts of animal ecology which emerge at various levels of organization; the ecosystem, the community, the population and the individual; laboratories emphasis on the quantitative analysis of field data and the simulation of population dynamics.
WFSC	405	2	Urban Wildlife and Fisheries Management	This course consists of an in-depth examination of the ecological, cultural, political, and economic consequences of the presence of wildlife in urban communities.
WFSC	425	2	Marine Fisheries	Survey of fisheries for marine vertebrates and invertebrates primarily in the Gulf of Mexico and South Atlantic with special emphasis being directed to their biology, economics and management.
WGST	200	3	Introduction to Women's & Gender Studies	This course is designed to introduce you to concepts, questions, and concerns of the interdisciplinary field of women's and gender studies. In particular, we will explore "gender" as it is experienced and constructed across lines of race, class, sexuality, and nation. Discussing issues that range from citizenship to sexual violence, this course requires an active, respectful, and consistent engagement with course materials and fellow students.
WGST	207	2	Introduction to Gender and Society	This course will give students an introduction to the basic concepts and theories of sociology needed to excel in the rest of the course. The majority of the course will focus on issues relating to gender and sexuality including but not limited to gender binaries, gender roles, political and economic issues, global problems, and media portrayals. Critical thinking and discussion will be important components of the course.
WGST	300	2	Psychology of Women	The course includes attitudes about gender, theories on gender development, and research about similarities and differences between men and women. This course will cover both a theoretical and pragmatic understanding of the psychology of women. We will utilize feminist theories and ideas to critically examine the social, psychological and political implications of our understanding of women and gender. This course has been completely revamped to integrate culture into each class. Research on how each gender is viewed will now include a comparison of each gender from both paternalistic and maternalistic societies.

WGST	333	2	Gay and Lesbian Literature	We will examine mostly western and Anglophone poetry, plays and novels by women and men, as per the catalogue description, taking up questions about the constructions of sexuality and erotic desire throughout history and changing cultural contexts. Issues to be discussed include: the development of homosexual subcultures in the seventeenth and eighteenth centuries, the construction of female "romantic friendship," the influence of the late nineteenth-century sexologists and of Freud, and the conflicts associated, at different times for men and for women, with emerging notions of homosexual, lesbian, bisexual, transgender/sexual, and queer identities.
WGST	343	1	Sex, Gender, and Cinema	"Sex, Gender and Cinema" offers an exploration of a significant topic at the intersection of women's/gender studies and film, such as cinema and sexuality studies, cinema and women, and cinema and masculinity; may include discussion of production, film content, and/or reception.
WGST	374	3	Women Writers	History of literature by women in English primarily from the 16th century to the present; emphasis on continuity of ideas and on literary contributions; study of poetry, essays, novels, short stories, with particular attention to characteristic themes and to racial, social, cultural diversity of women writing in English.
WGST	420	1	Gender & Communication	Survey of the role of gender in communication processes; focus on communication differences between men and women in contexts such as the family, school and work organizations; discussion of media influence in gender stereotypes.
WGST	481	1	Gender and Health	This course is designed to help students understand how the biological body and the social environment interact in matters of public health. More specifically, it aims to explore the reciprocal relationship between normative assumptions of gender/sex, on one hand, and health and science policy, on the other. In discussing reproductive health, obesity, prostate and breast cancer, and sexual dysfunction, we will analyze how notions of gender/sex simultaneously shape and reflect the questions health scientists ask, the methods used to answer them, and the interpretation of research results.
WGST	489	3	Images of Women	This course will examine visual images of women across historical time and multiple cultures, including our own, to explore what representations can tell us about the changing perceptions of the place of woman in society. You will become familiar with theoretical perspectives in multiple disciplines including Sociology, Psychology, Art History, and Film and Cultural Studies through examination of recurring themes and vast differences in representing the feminine. Our Sample will span current media representations of women from objectified to "tough," to images of female deity in ancient to contemporary times. We will discover how assumptions regarding woman as nature and nature as woman have influenced science and develop theoretical tools for understanding representations of women as cyborgs, in animation and in social media. Throughout the course, students will have the opportunity to bring in images of women from many sources for class discussion and analysis as we test out an array of theories to understand how visual images of the feminine are constructed and read in order to create gendered identity, space, and expectations. You will leave the course with a critical eye and the ability to analyze visual information well beyond representations of the feminine.



## Spring 2017 Sustainability Graduate Courses

	Count
Total Courses	914
Sustainability Courses	63
Courses Including Sustainability	62

SUBJECT	COURSE	# of Sections	Name	Course Description
AFST	689	1	Rhetoric & Public Culture: Gender & Black Resistance from Abolition to Lemonade	This course does so by examining the rhetorics of and about black resistance (broadly) and black freedom movements (specifically) in the United States from the early nineteenth century onward. The course is designed to acquaint students with histories and analyses of racial oppression and traditions of black protest with concentrated efforts to examine intersections of racial and sexual hierarchies and to recover women's/queer rhetorics. The course seeks to enable critical and historical dexterity as readings will traverse a number of time periods and engage a variety of "texts" (e.g., museums, speeches, images, performances, manifestoes, protests, etc.), offering students less of an exhaustive survey and more of a series of in-depth portraits of resistance and the contexts through which protests and movements emerge over time. To be clear, although contemporary forms of resistance are exigencies for this course, the bulk of course discussions and readings will ask students to engage a selection of nineteenth and twentieth century rhetorical/mediated/materialized texts and contexts.
AGEC	604	1	Natural Resource Economics	Critical evaluation of policies and procedures in natural resource development and use; identification of problems in resource development, the political-economic decision-making processes and analytical tools which can contribute to economic decisions.
AGEC	606	1	Water Resource Economics	We will examine the role that economics plays in the allocation of water, and the improvement of water quality, for both surface and groundwater supplies, looking at how economics helps us understand problems, and what the discipline offers as solutions to those problems. Water resource scarcity mandates very careful consideration of how water is allocated. Economics suggests that at "the margin" a resource that is scarce should command a high value. Water is still cheap in much of the Western U.S., and we will examine all the reasons this is so. Demand and supply factors contribute to how quantities are allocated among users, but regional, state, and federal water law still dictates much of how water is allocated. Therefore, this course will very briefly delve into water rights and existing laws. It is increasingly difficult to examine the allocation of water independently from water quality issues. In fact, in parts of the eastern U. S. poor water quality has led to water quantity issues, and even rationing efforts on the part of some state governments. In addition, water quality issues have caused shifts from the use of surface to groundwater supplies, and vice versa. As we will see, water quality issues are especially serious outside the U.S.
AGEC	689	1	Food Security, Climate and Conflict	Building on the rapidly accumulating evidence of the interaction of food security, conflict and climate, this course exposes students to the economic models of food production and consumption in conflict regimes; the micro-economics of violence; the dynamic relationships of climate and agricultural production; potential impacts of climate change on food and sociopolitical security; food security among insurgent groups; conflict resistant food systems; and the shifting relationships between poor and rich nations in relationship to climate, food and conflict. Classroom sessions will include an introduction to the topic for each classroom session, followed by student and lecturer discussions. The course will be team-taught under a lead professor.
ANTH	689	1	Environmental Archaeology	This course examines the paleoecological context in which past humans interacted with the natural environment, an environment encompassing plants, animals, and landscape. Lectures, readings, and assignments will cover advanced principles, method and theory, and practical applications used in paleoenvironmental reconstruction.

ARCH	602	1	Design Fundamentals II	It is the purpose of this architectural design studio to address the effects of affordability, sustainability, and health and wellness for the design of a small house and a boarding house for independent living for Mado Hamlet located in Serenbe Community, Georgia. Using two design projects, 20K house and StudyBoarding House, the course is designed to explore precedent analysis, health-wellness prototyping, architectural programming, affordability, site planning, architectural design, and appropriate architectural form languages. The course will focus on the interplay between appropriate architectural language and form, and the programmatic and qualitative needs of this project typology. In addition, it will be important to discover the correspondence between indoor and outdoor spaces, urban and rural site determinants, private and community functions, and contemporary and critical regionalist design languages. Serenbe received the inaugural sustainability award from the Urban Land Institute in 2008.
ARCH	619	1	Applied Solar Energy	Technology behind applied solar energy design, including: calculating solar radiation, heat transfer related to solar design; active systems; FCHART and economics.
ARCH	643	1	Software Analysis for HVAC Systems in Low Energy Buildings	Energy analysis (using Energy Plus software) with an emphasis on developing strategies for low energy use; simulation of various heating and cooling systems in low energy buildings; analysis of the mechanical equipment (including air handling systems, chiller and boilers), the building envelope, energy management control systems and indoor air quality.
CPSY	679	1	Multicultural Counseling	The purpose of this course is to provide a basic foundation of knowledge, self-awareness, and skills in multicultural counseling, theory, and assessment. This course will provide knowledge of important cultural issues and an introduction to various cultural groups. The course will cover theories, research, and practices associated with cultural competence on issues of race, ethnicity, gender, religion, sexual orientation, ability status, and social class
EDCI	645	3	Society and Education in World Perspective	This course is designed to examine socio-cultural, economic, and political forces that impact educational systems, particularly systems of teacher education, around the world. The content will be presented from socio-cultural, historical, philosophical, political, and economic perspective. The class will assess how different countries address issues related to differences in terms of race, class, culture, ethnicity, gender, power and how these factors influence the structure of educational systems, particularly structures of teacher education. In addition, the class will examine and analyze issues, problems, and solutions as they relate to providing all children with high quality education around the world. Important global issues relating to teacher education, global education and consciousness of others' perspectives will also be examined.
ESSM	651	1	Geographic Information System for Resource Management	Geographic Information System (GIS) approach to the integration of spatial and attribute data to study the capture, analysis, manipulation and portrayal of natural resource data; examination of data types/formats, as well as the integration of GIS with remote sensing and Global Positioning System; laboratory includes extensive use of GIS applications to conduct analyses of topics in natural resources.
ESSM	689	2	Coastal Processes and Ecosystem Management	-Integrate the latest knowledge from multiple disciplines to manage and restore coastal ecosystems, including from geology, geomorphology, biology, ecology, law, policy, economics, and engineering -Evaluate natural and social processes on the coast, and competing public and private stakeholder interests, and formulate solutions that reduce inherent conflicts -Lead class discussions while demonstrating a capability to organize materials and communicate with fellow classmates in a responsible manner -Deliver a technical presentation in a team and ethical business-oriented context
HIST	619	1	Research Seminar in Gender and Sexuality	This course will explore ways in which sex, gender, and sexuality have been understood and expressed in the past, how they have reflected and embodied hierarchies of race, status, and class, and how they have been policed and how that policing has been resisted.
HLTH	607	1	International Health	Health and health care delivery around the world; how various organizations are addressing global health concerns; includes emerging diseases, eradication of disease, global nutrition, family planning; emphasis on providing health information on a cross cultural environment.

HLTH	634	2	Women's Health	Women's Health is designed to provide you, the student, with the opportunity to explore the health issues and health care concerns of women by identifying a broad range of health topics that are either unique to women or of special importance to women. The multidimensional roles of American women as individuals, partners, mothers, nurturers, caretakers, and career persons create a need for their health status to be of vital importance. While women and men both experience similar diseases, disorders, and causes of death, women often experience these in different forms and at different stages and ages in life. Analyze the cultural, social, economic, and political state of affairs of women's health. Determine the relationship between values, lifestyle, socioeconomic status and education in the healthcare and behaviors of women
HLTH	635	2	Race, Ethnicity, and Health	Race, Ethnicity, & Health (HLTH 635) course will explore in-depth the racial, ethnic, and cultural dimensions that underlie health and health disparities. Special attention will be paid to culture, social economic status, and governmental policies as they influence the adaptation of health practices. The aim of this course is to introduce students to important health issues that face individuals of different racial and ethnic backgrounds. This course will address and explore a range of issues related to the health status of various racial and ethnic groups.
HLTH	642	2	Health Education Economics	This course introduces you to basic concepts in ethics as they apply to the practice of Health Education. These concepts will prepare you to reflect about the ethics of your practice, and to articulate wellreasoned responses to the many ethical dilemmas faced by health education practitioners. These basic concepts and their application will help you establish a foundation for judging what are the most appropriate, just, or morally right actions, regarding issues in your professional practice. The course will also help you become better able to identify current health education topics that have ethical implications or dimensions and require careful consideration and approach. An ethics approach to health education practice is especially important because education about health issues is a moral enterprise, given that it deals with people's decisions about quality of life, and lifestyles. In sum, this course offers you an articulated ethics framework in which to place your practice and your theory (the reflection about your practice). Ultimately, such framework will contribute to increased fairness and justice in health education practice, as well as to the absence of unjust disparities.
ICPE	611	1	Economics of Energy	Basics of economics concepts as they relate to energy market and analysis of energy related questions. This will involve coverage of basic economic concepts regarding energy markets; how the government policies affect the energy economy; energy economic implications of climate change; economics of bioenergy production.
ICPE	614	1	CO2 Sequestration	This module will focus on: • Explaining the goals and methods of CO2 sequestration in the subsurface and of monitoring its effectiveness • Identifying and explaining current technological challenges and problems in monitoring CO2 in the subsurface and in implementing sequestration for mitigating climate change • Understanding how carbon is transferred between atmosphere, hydrosphere, biosphere and geosphere by natural processes; basic geologic processes influencing sequestration programs
ICPE	618	1	Carbon Capture, Utilization, and Storage	The goal of this module is to introduce to the students the recent developments in the areas of carbon capture, utilization and storage (CCUS). Special focus will be given to major carbon capture technologies including absorption, membrane and adsorption.
ICPE	622	1	Energy Efficiency in Buildings	Topics include renewable energy, efficient building design, and measuring and verifying energy savings.
ICPE	626	1	Safety in Energy Systems	Energy safety and security is of essential importance for society and engineering for sustainable development. Over the whole spectrum of energy systems, which include electricity and fuels generated from a variety of sources such as nuclear, fossil fuels, hydrogen and fuel cell, solar, biomass, wind, ocean and geothermal as well as others, there are various safety aspects to be considered. These safety concerns may be prevalent in one or more stages of the energy supply chain, i.e., production, storage, distribution and application. Life cycle analysis, also known as life cycle assessment, is a technique to assess the safety and environmental aspects and potential impacts of a product, process or service with all the stages of a product, process or service from cradle-to-grave (e.g., from raw material extraction through materials processing, manufacture, distribution, use, repair and maintenance, and disposal or recycling).
INTA	608	2	Fundamentals of the Global Economy	Examines three fundamental pillars of the global economy: international trade, international finance and foreign direct investment (FDI); appreciation for the complexities of the international environment from both theoretical and policy perspectives.

INTA	632	1	Advanced Economic Development	Poverty is still a reality today, notwithstanding the enormous poverty reduction efforts and investments from governments and development agencies around the world. This course has two distinct components. First, it introduces research methods which are commonly used in studies of evaluating the effectiveness of international development programs. Second, it provides an overview of issues which are salient to the poor in developing countries around the world: education, health, credit constraints, gender inequality, and migration (including economic migration and political migration). The course encourages students to think about what can be done to improve the welfare of the poor, what has been tried out, what works, what doesn't, and, equally importantly, why.
INTA	670	2	Capstone Project-World Wildlife Fund	This capstone involves supporting a prominent international NGO whose mission to conserve nature includes the development of large programs to assist communities in fragile ecosystems to develop their livelihoods in better harmony with nature. This client is at the forefront of innovative financing and structuring of sustainability initiatives across trade chains and in large landscapes of biological importance. After consideration also with the client team in the fall semester 2016, Walker's capstone students determined to work for the client team members (in Europe and in the DRC) helping support item 2) above primarily and, as item 5) was also very appealing, to also do some work secondarily, in support of helping scale their overall financing. Scope of Services are to be refined with the client.
INTA	689	6	International Development Theory and Practice	The course will review various definitions of development and the theories which explain why some countries develop and others do not. Current controversies will be examined about what factors lead to economic growth; what role good governance and democratic institutions, the cultural values of a society, and social services play in development. Finally, the course will analyze how the foreign aid programs of donor governments and international institutions affect the development process, the politics of aid programs and the mechanisms for their implementation, and the role of new actors in development such as non-governmental organizations, corporations, and foundations.
LAND	685	1	Tactical Urban Agriculture Group	You are interested in urban agriculture. Great, so are we. Urban Agriculture is a complex social/physical/cultural construct that has the potential to feed humanity, help the planet, and look really cool in the process. The potential is tremendous, but we can't start constructing without understanding. Another great thing about urban agriculture is that no one discipline can claim ownership. Therefore, we need a multidisciplinary team. Economists, designers, cooks, doctors, scientist, thinkers, eaters, makers... we need as many ways of viewing the issue as possible. The challenge for this course is to design and create urban agricultural installations around the Langford Architectural Center. Before we can begin the designing and installation process we need to understand more about urban agriculture and how does it apply to our bioregion, climate, culture, time, and place. Who is involved in urban agriculture? What kinds of urban agriculture would work here? Where are we physically going to place our installations? When are the optimal times for different stages related to urban agriculture? Why should we be doing this? How do we accomplish the multiple tasks necessary for urban agriculture?
LDEV	671	1	Sustainable Development	Sustainable development is not the enemy of property development. The reduction of risk and maximization of returns will increasingly be achieved through the adoption and adaptation of real estate conceptualization, design, implementation, and management techniques, which have their roots in the quest for sustainability. Our focus is on gaining an understanding of what constitutes sustainable development, and how future development plans and projects might deliver a sustainability dividend—a measurable uplift in financial return.
PETE	644	2	CO2 Capture and Uses: Sequestration, Enhanced Oil Recovery (EOR)	CO2 capture and storage (CCS) involves the injection and containment of CO2 in geological structures such as depleted oil and gas reservoirs, onshore and offshore saline aquifers located deep in the earth's crust, salt caverns or un-minable coalbeds. This is an approach that can be used to improve the energy production from existing fossil fuel operations (Enhanced Oil and Gas Recovery) as well as a means of reducing greenhouse gas emissions. This course will provide a scientific and technological foundation designed to provide answers to questions important to those interested in investigating the potential of CCS to enhance energy production and reduce greenhouse gases as well as to policy makers. To this effect, the course will provide the students with the methodology and the tools to evaluate and quantify the potential, uncertainties and risks involved in CCS or EOR. Safety, economic, and environmental and legal aspects will also be covered.

PHIL	682	1	Critical Race Theory: Reclaiming a Radical Disciplinarity	This class aims to understand why racism is a permanent part of American society (racial realism), the failure of the American liberal democratic project, the relationship between politics and law (interest convergence), and the political program of disciplines which try to make this once radical racial perspective compatible with the at-large post-civil rights consensus that many whites hold about race. By reclaiming Critical Race Theory's association with African-centered thinking, Black Nationalism, and Critical Race Feminisms, it is hoped that the student will develop a more critical structural notion of racism in American society and law that is specifically geared toward dealing with the reality of white supremacy and the role that whites play in perpetuating this complex system.
PLAN	625	2	Geographical Information Systems in Landscape and Urban Planning	Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environment studies, transportation and hazard management; based on learning through class projects.
PLAN	629	1	Neighborhood Revitalization	There is probably no greater challenge facing urban professionals today than that of redeveloping our central cities, urban and suburban neighborhoods and rural communities. As public alarm rises over crime, drugs, unemployment, foreclosures and other problems, polarization increases. Elected officials and "experts" provide the public with a stream of supposed causes ranging from loss of family values to laziness and billions of dollars continue to pour into ineffective programs based on these "causes"; meanwhile, the problems increase. Planners and public administrators seem powerless to stem the tide of lost infrastructure, dollars, productivity, and lives that flows from these issues. This course will examine the causes of decline, with the objectives of developing a realistic view of who is affected, how they are affected, and why, so that you will know how to lay a foundation for redevelopment projects that will succeed. In order to cover as much of this topic as possible, the first-class sessions will be followed by an investigation of downtown decline and redevelopment--that is, commercial, office, entertainment and retail revitalization in the downtown core. The remaining class sessions will focus on the problems of the original urban neighborhoods (generally surrounding the downtown core), and will take a close look at the causes of these problems along with some notable success stories, using case studies from a variety of places.
PLAN	634	1	Environmental Health Policy and Planning	Interdisciplinary perspective of environmental risk analysis methods and policy implications; federal and state agencies and programs involved in developing and implementing environmental health policies and monitoring environmental health hazards; historical and economic context of environmental health legislation; framework for policy making process and criteria to determine effectiveness and outcomes.
PLAN	642	1	Coastal Resiliency and Sustainability	This course will cover a broad range of topics related to resiliency and sustainability in coastal areas. Readings and classroom discussions will examine a range of issues associated with understanding resiliency/sustainability from ecological, social, economic, organizational, planning, and built-environment perspectives. Specific topics will include: ecological disturbance, adaptive learning, sustainable enterprise, social vulnerability, natural hazards, climate change, development management, and ecological footprint analysis. The approach of the course will be problem-based, where students will have the opportunity to apply the principles of sustainability and resiliency to realistic problems, settings, and solutions. The content of the course will prepare students to address the interdisciplinary, complex problems associated with coastal sustainability and resiliency in their work and everyday lives.
PLAN	650	1	Disaster Response Planning	Mitigation, preparedness, response and recovery strategies; roles of the Federal Emergency Management Agency, the Governor's Division of Emergency Management, the National Weather Service and the American Red Cross.
PLAN	673	1	Design for Sustainable Transportation	This course examines how automobile use, transportation design, and land use policies impact travel behavior and how these policies can both encourage and discourage automobile dependence and the use of alternate transportation modes. Divided into two sections, the course first introduces the concept of sustainable transportation, the current state of U.S. transportation networks, how transportation decisions are made, and concepts such as housing location choice, livability, and policy. The course will then introduce a toolbox of strategies designed to mitigate congestion, promote sustainable transportation goals, and create spaces for healthy living. Students will learn principles, techniques, and examples of neo-traditional design, alternate transportation modes, pricing and parking strategies, active transportation, travel options, and traffic management. Students will also learn the importance of context and multiple-solution synergy in implementing solutions through policy and practice.

PSYC	689	1	Health Psychology of Disparities	Pervasive disparities exist in health status and access to care across sociodemographic groups. Health disparities pose a significant problem from public health and social justice perspectives, and are the target of current national initiatives (e.g., Healthy People 2020). New approaches are urgently needed to combat inequities in health. Importantly, disparities exist along social categories – such as race, ethnicity, sex, sexual orientation, age, disability status, socioeconomic status - about which psychologists have expertise. There is great potential for psychologists to contribute to new understanding of mechanisms by which health disparities arise and are maintained as well as to the development of effective interventions to combat disparities. In this course, we will first review major health disparities and then explore diverse theoretical and methodological approaches from various scientific disciplines to illuminate determinants of health disparities and to support development of ideas to further understand and target health disparities. Finally, each of you will prepare a grant proposal integrating your expertise/area of interest and the study of health disparities.
RENr	660	1	Environmental Impact Assessment	Learning Outcomes: 1. Appreciate the conservation/environmental history of the United States and how that has influenced current views, laws and regulations related to the environment and land use. 2. Be able to assess various approaches to environmental impact assessment 3. Be familiar with the content, purpose and process of the National Environmental Policy Act (NEPA) 4. Be able to prepare and review environmental assessments and environmental impact statements necessary for NEPA compliance 5. Be able to provide the content for and facilitate the permitting process to comply with the Endangered Species Act, the Clean Water Act, the National Historic Preservation Act and other resource related laws. 6. Be cognizant of the myriad of laws and regulations that apply to conservation/environmental/land use issues and the professional approach to deal with these often contentious issues
RPTS	655	1	Biodiversity Science I	Efforts to halt the loss of biodiversity must be based on integration between science and practice. Linking theory with conservation requires the engagement of many different actors, including biologists and social scientists, universities and museums, governments and nongovernmental organizations, industries, interest groups, and communities. Such collaboration is critical for establishing conservation priorities, developing ecologically and socially acceptable management plans, building local capacity for stewardship, and guiding effective policy. Currently, a great deal of conservation research is based in universities with few linkages between scientists and practitioners, or between theory and on-the-ground work. Moreover, research on patterns and processes that underlie the loss of biodiversity are often conceptual and discipline specific, with few lessons shared among researchers from diverse disciplines.
RPTS	666	1	Parks, Tourism and the Natural Environment	Parks, Tourism and the Natural and Cultural Environment . Analysis of natural and cultural resource management in the United States; emphasis on federal policy and the influence by political processes at the national, regional, and local levels; case studies to illustrate conceptual and legal frameworks in real world contexts, including the policy and politics of tourism and recreation, endangered species, contested history, and Native American traditions and sovereignty.
SCSC	644	1	Forage Ecology and Management	This course investigates multidisciplinary approaches towards the development of integrated forage, livestock, and wildlife production systems that are economically feasible and environmentally sustainable.
SCSC	657	1	Environmental Soil and Water Science	Discussion of physical, chemical, and biological properties of soil and water and the impact on productivity and sustainability of various ecosystems; application of the knowledge of properties and soil processes to develop and evaluate strategies for protecting and/or improving soil and water quality.
SCSC	658	1	Watershed and Water Quality Management	Specific Objectives/Learning Outcomes: • Understand the basic principles of watershed science relevant to water quality management. • Describe carbon and basic nutrient biogeochemical cycles in watershed soils which have an effect on water quality. • Explain the principles and processes of water movement in watershed soils and how they impact nutrient transport. • Understand the role of watershed soils in water quality and water yield. • Understand how soil in a watershed may impact surface water quality and quantity • Be able to explain how the physical, chemical and biological properties of watershed soils and their processes affect water quality. • Demonstrate an understanding of water resources and their recharge under differing watershed land covers. 2 • Understand how climate and land management practices on different vegetative cover may impact water quality. • Describe the affect of irrigation water chemistry on watershed soils. • Understand the impacts that land management/land use practices have on water quality. • Examine best management practices and their results in terms of surface and ground water quality.

SOCI	607	1	Gender and Work	The goal of this course is to understand why and how men and women's paid and unpaid labor is distinctly valued in the national and international labor market. Moreover, it will interrogate how race and class intersect gender to create further inequalities at work.
SOCI	647	1	Urban and Spatial Demography	The goal of the seminar is to help motivated students become better acquainted with the area of urban and spatial demography. Topics will cover classical and contemporary issues relating to urban and spatial demography giving special emphasis to issues relating to: urban and metropolitan form at the micro and macro levels; the concepts, data and methods used in urban demographic research; patterns of urban change; and inequality, poverty, and ethnic segregation in American urban areas.
SOCI	657	1	Race, Gender, Science and Technology	Women and minorities are still underrepresented in science and engineering. To better understand this phenomenon this course sets up a dialogue among practicing women scientists, engineers, and social scientists from multiple perspectives who have been examining the ways social assumptions about gender and race can be constructed into scientific and technological practice and outcomes. Goals of the course include understanding how constructions of difference are created in scientific, biomedical, and technological practice in order to contribute to the creation of more gender and race neutral knowledge production and work environments.
SPMT	613	2	Diversity in Sport Organizations	Examines an encompassing perspective of diversity within North American and international sport organizations; analysis and understanding of the various ways that people within sport organizations can differ; treats issues of the non-dominant, historically under-represented elements of U.S. society with an emphasis placed on racial and gender issues.
ANSC	689	1	Current Issues in Animal Agriculture	College graduates entering the workforce for the first time are expected to be knowledgeable of the technical subject-matter in their field. In addition, they should exhibit awareness and understanding of the concerns of some in the general public about specific elements of their profession. The field of animal agriculture has, of late, been a lightning rod for skeptics and critics with both real and inaccurately perceived criticisms of what, how and why certain things are done. This course is intended to prepare graduates to project a professional image while using their communication skills to describe animal agriculture and to discuss its strengths and weaknesses with others. Discusses multiple topics with animal culture and sustainability, human impact on the environment, and climate change.
ARCH	608	1	Architectural Design IV	Students completing ARCH 608 should be able to: 1. Ability to investigate key issues related to the project, site and context types 2. Ability to demonstrate design thinking skills and develop formal ordering systems in response to the findings of the investigation of the project issues. 3. Ability to produce the technical documents demonstrating an understanding of the professions responsibility to historical traditions, global culture, accessibility, sustainability, site design, life safety, environmental and structural systems. 4. Ability to demonstrate initiative, curiosity, discipline and integrity throughout the design process.
ARCH	606	1	Architectural Design II	Application of verbal, graphic, research, critical thinking and fundamental design skills to architectural projects that emphasize the integration of structural, environmental, life safety, building envelope systems, and building service systems; includes code compliance, resource conservation, cost control and economic analysis. Core design studio for professional degree candidates.
ARCH	633	1	Applied Architectural Systems	Building energy consumption patterns and conservation strategies; natural and mechanical subsystems for environmental control; subsystem design criteria, economic considerations and selection methods.
ARCH	615	1	Architectural Systems	This course is intended to give the undergraduate students both a fundamental base and practical knowledge of the environmental control systems/strategies in large and small buildings. The topics include: theory and applications of building energy use, envelope design, shading analysis, heating and cooling systems, lighting design, building water supply, plumbing and drainage systems, electrical, acoustical, fire and lightning protection, life safety, transportation systems and construction materials, design opportunities, calculations, equipment selection, and component sizing as they relate to design. Much of the material covered in this course will help to prepare the student in a direct way for graduate programs in architectural education. Field trips to view real HVAC systems will be included in the course as time allows.

ARCH	637	1	Seminar in Japanese Architecture History and Theory	Japanese Architecture: Theory and History. Background and exploration of Traditional, Modern and Contemporary Japanese Architecture, including consideration of region, materials, structure and style, as well as the social and economic factors that influence architectural form and content; discussion of the works and writings and building models of case study of Japanese architects' design. Prerequisite: Graduate classification or approval of instructor. 1. Identify, define and describe the visual and textual languages of architecture in theory and in practice and critically assess various works of art and architecture through the analysis of formal elements and aesthetic principles. 2. Articulate the creative process of artistic and architectural design as expressions of human experience and cultural values. 3. Prepare the student for final study by investigating the creative role ideas play in the design process and how they are made manifest in architecture. 4. Develop the student's ability to understand how architecture theory and idea translated into the space and structure by the analysis and building case study models, and speak and write effectively on key subjects in their field of study. 5. Complement the design studio by surveying, analyzing and interpreting historical precedents, investigating their contemporary relevance and evaluating their usefulness as formal, structural and programmatic models. 6. Raise the student's awareness of architectural discourse in the context of global change and sustainability.
ATMO	613	1	Advanced Atmospheric Chemistry	1. Principles of Physical Chemistry Relevant to the Atmosphere Thermodynamics and thermochemistry. Reactions kinetics. Photochemistry. Heterogeneous chemistry 2. Atmospheric Aerosols Sources, sinks, and physical and chemical properties. Nucleation, growth and transformation of aerosols. Aerosol-cloud interactions. Stratospheric aerosols 3. Tropospheric Chemistry H <sub>x</sub> O <sub>y</sub> cycle, ozone and photochemical smog and urban air pollution. Tropospheric cycles: nitrogen cycle, carbon cycle (e.g., organic compounds, CO, CH <sub>4</sub> , VOCs, etc.), sulfur cycle, halogen cycles, and trace element cycles 4. Stratospheric Chemistry Chapman model, HO <sub>x</sub> , NO <sub>x</sub> , ClO <sub>x</sub> , and BrO <sub>x</sub> cycles. Chemical mechanisms of polar ozone depletion. Anthropogenic impacts 5. Approaches of Atmospheric Chemistry Research Field measurements. Numerical models. Laboratory experiments
BAEN	665	1	Design of Biological Waste Treatment Systems	Engineering design of biological waste treatment processes; management and treatment of domestic, agricultural, and agro-industry wastewater; resource recovery from waste streams; recycle and reuse of finished effluents; regulatory aspects affecting management of agricultural wastes.
COMM	662	1	Survey of Telecommunication and Media Studies	This graduate seminar is a survey of research and theory in media studies and telecommunication. It prepares students for research, writing, and reflection on media and communication theories informed by critical media studies. It compares primary texts of prominent theorists of Marxism, post-Marxism, postmodernism, feminism, and global media studies. Major topic areas analyzed are culture, ideology and hegemony; social life and cultural studies; political economy; postmodernism; new media and social networking; and globalization and new social movement.
CVEN	674	1	Groundwater Engineering	This course is structured into three units, each with its own set of learning objectives, readings, and hands-on experiences. The first unit covers a bit of review on groundwater basics, and then looks more in depth into issues related to aquifers, groundwater management, and groundwater quantity. The second addresses groundwater quality, contaminant transport, and contaminant remediation. Finally, we discuss how modeling can be used to predict changes in both groundwater quantity and quality, particularly under uncertain geologic conditions.
ECEN	767	1	Harnessing Solar Energy: Optics, Photovoltaics and Thermal Systems	Describe and analyze optical coatings, including their refraction, absorption, transmission and reflection properties and wavelength dependence - Describe the physical basis for light-matter interactions and energy conversion, including those underlying optical detectors for different wavelength ranges and for photovoltaic cells - Apply optical analysis tools including ray optics, Gaussian beams, and diffraction to basic optical systems incorporating concentrating lenses and mirrors, understand etendue limit for concentrating systems - Analyze fundamental properties and limitations of photovoltaic cells, particularly as they relate to efficiency and various factors impacting efficiency - Develop laboratory skills and ability to measure solar irradiance, as well as the input and output energy for basic solar photovoltaic and thermal systems for calculating system efficiency
EDCI	602	3	Cultural Foundations of Education	Contributions of behavioral sciences applied to analytic tools in solving problems of curriculum and instruction.



EDCI	615	1	Classroom Practice in Adult ESL	Students will be able to discuss and demonstrate knowledge of major theoretical and practical issues in adult ESL literacy, including: • Social, cultural, and cognitive perspectives on adult ESL literacy - issues of identity and socialization • Political and economic consequences of adult ESL literacy - issues of educational policy and power • Adult literacy, biliteracy, and language diversity in the United States • Adult language learners' funds of knowledge and participatory literacy training • Principles of adult ESL learning, including a continua of biliteracy • Contemporary instructional models and approaches in adult literacy education • Adult curriculum design, including content selection and materials development • Assessing needs, finding student themes, and individual goal setting • Conveying civic competencies and behavior expectations through classroom management techniques • Active learning and authentic assessment
EDCI	642	2	Multicultural Education: Theory, Research and Practice	At the end of the course the student should be able to: 1. Know the history of multicultural education. 2. Define the discipline of multicultural education. 3. Become familiar with the current research and trends in the field of multicultural education. 4. Examine the theoretical and conceptual frameworks that undergird the discipline of multicultural education and explain its relationship to the educational process and workplace. 5. Identify the leading researchers in the field of multicultural education and their noted research. 6. Identify and critique multicultural education textbooks. 7. Identify one global human rights issue and apply the issues of multicultural education. 8. Explore processes to infuse multicultural education into schools, organizations and within the global society. 9. Explore the disciplines of educational administration, counseling and relate to multicultural education 10. Recognize and examine the influence of multicultural education tenants on learning, teaching and/or working in a global society. 11. Discuss the relationship among global education, international education and multicultural education.
EDCI	648	2	Urban Schools and Communities	This course provides students with a comprehensive understanding of the social forces that affect urban schools and communities. Students in the course will examine the sociological, historical, philosophical, anthropological, and political dimensions of urban schools and community change.
EHRD	619	1	Conflict Management and Dialogue	In this course the many ways that individuals think about and practice conflict management and effective dialogue will be explored. Students will have a chance to learn more about their own negotiating preferences and its impact on self, the workplace, and their careers. Additionally, an aim of this course is to assist learners in the identification and learning of the importance of effective conflict management in the workplace and to develop skills to effectively engage in meaningful conflict using effective modalities for the situation presented. The emphasis in this course is the appreciation of conflict management from a social justice perspective. Further, higher education and strategic conflict engagement will be explored. The course requires both intensive involvement in negotiation and mediation simulations/exercises and thoughtful application of theory through class discussion and written analysis. Class materials will reflect a variety of contexts from the workplace, including interpersonal, global, and cross-cultural interactions
ENGL	673	1	Global Intimacies	This graduate course will examine a range of literary, ethnographic, visual, historical, and theoretical texts that conjoin--or attempt to conjoin--the global and the intimate. The "global" typically references large-scale social formations: human migration, capitalist expansion, mobilities facilitated by technological proliferation and distribution, histories of empire, and even the post-human. The "intimate," meanwhile, invokes smaller- scale social formations and relations: the tactile and unseen, the erotic, the private, and the body. Drawing on multiple genealogies of "the intimate" and "intimacy," this course will position these smaller scale formations in relation to larger scale ones in order to demonstrate how each illuminates and exerts pressure upon the other. The course will cover such global intimacies as contact between racialized populations precipitated by labor migrations; intimacies (sexual and otherwise) that fall outside the bourgeois family form shored up by these migrations; fractious intimacies between workers and between workers and clients that emerge through late global capitalist expansion, such as the nail salon, domestic care work, and the call center; the impact of globalization on privatized notions of kinship; intimacies between the human and non-human (animals and inert matter); and the impact of cultures of surveillance and state regulation on bodies' capacities to affect and be affected.

ENTO	614	1	Insect Community Ecology	The objective of this course is to provide a strong and contemporary foundation in insect population, community and evolutionary ecology. Insect ecology is a dynamic and relatively young field. As a result, our understanding of the forces that limit population growth, shape community structure, and influence the rate of evolution of insect populations is rapidly expanding. Insect ecology is maturing as our world's natural resources become degraded and altered, perhaps irrevocably. At the same time, our agricultural crops are being challenged by insect pests that are becoming more difficult and expensive to control and calls for more ecologically based control measures are increasing. In addition, insects that have strong, negative effects on native species are invading our most precious indigenous habitats. Consequently, understanding the principles that underlie insect ecology is imperative to understand the natural world and to help solve serious environmental problems. My goal is to stimulate your interests in this exciting and rapidly growing field and to provide a background that will help you understand and study the problems facing our natural resources.
ESSM	685	1	Exploring Citizen Science (Directed Studies)	To understand citizen science as a concept and in its implementation. This approach to data collection is becoming more and more popular for large-scale environmental science research projects but how reliable is "citizen science" in practice? Discusses topics such as conservation biology.
GEOL	678	1	Earth Science Modeling	Techniques for building, solving and analyzing numerical models applied to a wide variety of problems in geology, geochemistry, geobiology and geophysics; derivation and scaling of conservation laws; finite difference and finite element techniques; laboratories will involve programming models in MATLAB.
HISP	670	1	Nadar contracorriente: construcciones de identidad de género en la narrativa contemporánea de autores latinos	<i>[Translated from Spanish]</i> This course explores the construction of gender identity in a narrative corpus autobiographical and fiction of contemporary Latin authors. This is a relevant topic as that the analyzed authors reflect, question and / or subvert the ideological and the stereotypes that regulate "ideal" or normative behaviors of men and women while expand the social imaginary of gender identities. Imbricated in the context of gender, there are other factors of equal ethnic, racial, class and social status, among others.
HIST	624	1	Readings in Race, Ethnicity, and Migration	This course examines key topics and questions in the history of race, ethnicity, and migration in the American South and Southwest. The course focuses on the methods and approaches of this area of study and introduces you to some of the most important books and ideas. The course especially explores the comparative method as a way of making sense of the past. I am primarily interested in your understanding in detail the connections between race, ethnicity, and migration, and how and why change over time occurred.
HIST	679	1	Research Seminar in Southwestern Borders	Research seminar that discusses many aspects of Texas history, and touches on issues of race and ethnicity.
HLTH	640	2	Health Intervention and Wellness	Wellness as a concept and a process; systematic planning, implementation and evaluation of wellness programs and review of research relating to the efficacy of wellness programs and methods.
HORT	609	1	Plants for Landscape Design II	Identification and use of indigenous and introduced landscape plants; plants for special uses in urban environments; emphasis on plants' ornamental attributes, cultural requirements, and adaptability in urban and suburban environments.
ICPE	603	1	Bioenergy	Introduction to the fundamentals of biomass (biochemistry and resources); basics of important processing technologies for the pretreatment and conversion of biomass to useful products.
INTA	636	1	International Development Theory and Practice	The course will review various definitions of development and the theories which explain why some countries develop and others do not. Current controversies will be examined about what factors lead to economic growth; what role good governance and democratic institutions, the cultural values of a society, and social services play in development. Finally, the course will analyze how the foreign aid programs of donor governments and international institutions affect the development process, the politics of aid programs and the mechanisms for their implementation, and the role of new actors in development such as non-governmental organizations, corporations, and foundations.
LDEV	684	2	Professional Internship-Master of Land and Property Development Program	This course has been developed to allow you to work with industry professionals on real projects in the land and property industry that will serve to enhance your core knowledge and core competencies. A significant investment has been made to allow you to meet, be mentored by, and develop a strong professional network in the real estate development industry so as to create internship opportunities and post graduation employment opportunities. Sustainable Development is a major objective.

MEEN	662	2	Energy Management in Industry	Energy systems and components frequently encountered in industrial environments; application of basic principles of thermodynamics, heat transfer, fluid mechanics and electrical machinery to the analysis and design of industrial system components and systems. Improved energy utilization. At the end of the semester, you will be able to: • Describe the operation and common application of common industrial energy systems, including steam systems, compressed air systems, cooling systems, heating systems, motors, lighting, and power generation technologies. • Describe best practices for industrial energy audits, and energy management programs • Identify common industrial energy recommendations, and calculate the associated energy and cost savings • Synthesize course concepts and techniques to conduct an audit of a manufacturing facility
MEEN	665	1	Application of Energy Management	At the conclusion of this course the student is expected to be able to: x Conduct a preliminary evaluation of the potential energy savings in a commercial building based using gas and electric utility bills and basic building characteristics x Conduct a site visit to a building and based on several hours measuring performance and collecting information from mechanical rooms, provide an quantitative assessment of potential savings from operational improvements in the building x Understand and be able to evaluate the savings to be expected from implementing common Continuous Commissioning® measures and other energy efficiency measures
NUTR	684	1	Professional Internship	Nutrition care practices in clinical, community, and administrative settings. Provide medical nutrition therapy to diverse patient populations.
OCNG	640	1	Chemical Oceanography	Chemical composition and properties of seawater, evaluation of salinity, pH, excess base and carbon dioxide in sea. Marine nutrients, oxygen and other dissolved gases, organic constituents.
PHIL	632	1	Black Male Studies: Black Phallicfizm and the Genocidal Logics behind Black Male Death	This class, supported by the University of Southern California Shoah and A.I. and Manet Schepps Foundation Teaching Fellowship in genocide studies, will historicize the racial and sexual dynamics that have repressed Black men from the 1800s to present. This course will: (1) familiarize students with 19th century ethnology, (2) explore the various accounts of the rape of Black men during slavery and Jim Crown by white men and women, (3) the debates between lynching advocates and progressives who advocated castration, (4) utilize empirical findings concerning Black males' actual gender attitudes and activism concerning sexual violence in the 20th century, and (5) learn the various literatures of social dominance theory which focus on the lethal violence against Black men and boys.
PLAN	667	1	Site Planning	Credit 3. Introduction to physical planning and design aspects of city planning; the relationship between urban design and city/regional planning; the history of design paradigm; essential tools and applications for physical planning; and site planning and design of physical attributes. Discusses microclimate, community design, soils, and other environmental aspects
POLS	646	1	Public Policy Theory	This course provides an overview of political science theory on the public policy process, and an introduction to measurement and analysis of policy performance. Reading selections include canonical texts as well as recent, emerging research, with an aim toward preparing students to contribute new research and teach college-level courses on the topic. The substantive focus of the course merits brief discussion here. Virtually everything that any government does, anywhere and anytime, is public policy. However, this edition of POLS646 will focus heavily on the United States, and disproportionately on environmental policy and public finance.
PSAA	603	1	Nongovernmental Organization Management in International Settings	Exploration of the management of nongovernmental organizations (NGO) in international setting with special attention to their niche alongside private and public sectors, revenue sources, impact on society and converse effects of society and its institutions.
PSAA	618	1	Education Policy	Examines the role of government in education and education policy issues, including equity, adequacy and accountability; final section of class will focus on current policy topics, emphasizing two strategies favored by the Obama administration--charter schools and pay for performance.
RENR	662	1	Environmental Law and Policy	Analysis of the legal theories used to allocate and protect environmental resources; common law, federal and state statutes, and international treaties dealing with the environment; policies and laws for controlling air, water, solid waste, toxic waste and water pollution; species protection and natural resource use.
RPTS	605	1	Community Organization	Examines how community organization and institutions differ and result from diverse social, cultural and demographic factors; explores how these factors restructure communities over time and community responses to restructuring.

RPTS	646	1	Heritage Tourism	Comprises a transdisciplinary examination of contemporary research and practice in heritage tourism and public culture; encourages to deploy a variety of disciplinary outlooks to explore the representation of peoples, places and pasts in a range of settings from the indigenous/sacred to the post industrial/post colonial.
SCMT	705	1	Global Operations	This course provides a framework to describe and formulate an operations strategy and understand and evaluate the key decisions in operations that have a substantial impact on a firm's competitive position. Thus, the word strategy has two connotations: formulating an operational strategy (long-term plan) and making strategic (important) operational decisions. We will study books, articles, and cases in a variety of settings using a variety of tools to achieve these two goals. The course will also examine today's critical strategic issues such as sustainability and globalization.
SOCI	689	4	Sexualities and Gender in Transnational Perspective	Globalization—a term that is used to refer to the flow of capital, discourses, ideas and images across national boundaries—impacts multiple dimensions of our social life, including the sexual and the intimate. There has been a rich conversation in sociology, anthropology, women's and gender studies and queer studies around how these largescale global processes (migration, social movements etc.) shape intimate norms, practices, identities, subjectivities and experiences. In particular, transnational feminist and sexuality scholars pay attention to how these global sexual flows might replicate, reproduce and resist existing binaries such as western/nonwestern, global/local, modern/traditional, economy/intimacy, labor/leisure etc. While intimacy and sexuality will be a main analytic through which we examine globalization and transnational processes, we will situate them in other social identities such as gender, class, race, ethnicity and regional identities. This seminar will be an interdisciplinary exploration of how globalization/s constitute sexuality and gender and how it is in turn, constituted by them. Using queer transnational feminist lens, we ask: whether globalization of sexuality is a new phenomena? How might contemporary globalization/s transform or reproduce earlier forms of sexual and gender inequalities? What is the relationship between global monetary economies and national/local intimate economies? We will examine these issues through close and critical reading of key texts drawn from interdisciplinary feminist sociology, anthropology, history, queer studies and cultural studies.
SOCI	691	1	Sociology of Mental Health	This course is designed to provide students with a basic foundation in the theoretical, methodological, and substantive issues that have shaped research and policy in the mental health/mental illness field. Biomedical, psychological, and sociological perspectives on mental/health disorders are examined critically on both conceptual and methodological levels. Within the sociological perspective, special emphasis is given to the stress and societal reaction perspectives. Issues in the definition, measurement, and epidemiology of mental disorders are reviewed. Special emphasis is placed on social class, race-ethnic, gender, and marital status difference in the prevalence of mental health and mental illness. Sections are also devoted to topics such as help seeking, institutionalization, the criminalization of mental illness, deinstitutionalization, and the financing and delivery of mental health services. The primary goal of this course is to see mental health/disorder as a social phenomenon, not just as medical or intrapsychic problems. Specifically, this means that mental health problems are seen as stemming from complex linkages between interpersonal, institutional, and cultural factors, not just the troubles of specific individuals.
SPMT	623	2	Intercollegiate Athletics	Throughout this course we will examine the National Collegiate Athletic Association (NCAA) and intercollegiate athletics. Through the use of various course materials, you will understand historical, legal, financial, educational, and diversity related issues which pertain to intercollegiate athletics. There will be contributions ranging from theoretical perspectives to the study of college sport, to include the sociocultural (race, gender, and class) interactions and their relationships to the NCAA, intercollegiate sport, and higher education.
VIBS	690	1	Special Topics: Principles of human health risk assessment of chemicals	This course will provide students who already have good knowledge of the basic principles of toxicology and environmental health with the basic concepts and approaches for conducting human health risk assessment of chemicals. Students will learn how to use different types of data and analysis approaches to conduct both qualitative and quantitative assessments of exposure, human health hazard, dose-response, and risk from chemicals in the environment. Students will also be introduced to how risk assessment informs risk management decisions, such as pollution regulations or hazardous waste cleanups.

VMID	686	1	Scientific Ethics	The course will be an overview of ethical issues encountered by toxicologists and other scientists in the conduct and dissemination of their research, in their pursuit of resources, in their interactions with the press and the broader public, and resulting from the extension and technological application of their findings. Students should develop vocabulary and thinking skills that will enhance their ability to make informed, ethical decisions and to communicate the rationale for their actions to other scientists and to the broader public
WGST	680	1	Theories of Gender	Theories of gender, sexualities, feminism, embodiment, and difference with particular focus on their relationship to literary and cultural studies; emphasis on contemporary theoretical positions, discourses, and debates.
WGST	689	4	Gender and the Horror Genre	This seminar will allow us to explore and analyze the ways in which a single literary and/or film genre resonates with gendered perspectives and sexual subjectivity. We will focus on the horror film as it has been used to allegorize struggles related to male and female subjectivity and hetero and homosexual desire, asking ourselves if horror allows people, at a pop-cultural level, to address the deepest and most profound fears and fantasies associated with their gender concerns and sexual identities.

**Total Sustainability Courses and Courses that Include Sustainability by Department**

	Subject Code	Department	Subject	Notes
1	CHEN	Artie McFerrin Department of Chemical Engineering		
2	IBUS	Center for International Business		Center
3	AGLS	College of Agriculture and Life Sciences		College
4	LBAR	College of Liberal Arts		College
5	SCEN	College of Science		College
6	CARC	College of Architecture		College
7	ACCT	Accounting		
8	AERO	Aerospace Engineering		
9	AGEC	Agricultural Economics		
10	AGSC, ALEC, ALED	Agricultural Leadership, Education, and Communications		
11	ANSC	Animal Science		
12	ANTH	Anthropology		
13	ARCH, ENDS	Architecture		
14	ATMO	Atmospheric Sciences		
15	AGSM, BAEN	Biological and Agricultural Engineering		
16	BIOL	Biology		
17	COMM	Communication		
18	COSC	Construction Science		
19	ECON	Economics		
20	ESSM, RENR	Ecosystem Science and Management		
21	EDAD, EHRD	Educational Administration and Human Resource Dev.		
22	BEFB, EPFB, EPSY, SEFB, SPED, SPSY	Educational Psychology		
23	ECEN	Electrical and Computer Engineering		
24	ENTC, IDIS	Engineering Technology and Industrial Distribution		
25	ENGL, LING	English		
26	ENTO	Entomology		
27	GEOG	Geography		
28	GEOL	Geology and Geophysics		
29	HEFB, HLTH, KINE, KNFB, SPMT	Health & Kinesiology		
30	HISP, SPAN	Hispanic Studies		
31	HIST	History		
32	HORT	Horticulture Sciences		
33	INFO*	Information and Operations Management		
34	INTA	International Affairs		
35	ARAB, ASIA, EURO, INTS, MODL	International Studies		
36	LAND, PLAN, URPN, URSC	Landscape Architecture and Urban Planning		
37	MGMT	Management		
38	MKTG	Marketing		
39	MEEN	Mechanical Engineering		
40	NUEN	Nuclear Engineering		
41	FSTC, NUTR	Nutrition and Food Science		
42	OCNG	Oceanography		
43	MUSC, PERF, THAR	Performance Studies		
44	HUMA, PHIL	Philosophy and Humanities		
45	BESC, PLPA	Plant Pathology and Microbiology		
46	POLS	Political Science		
47	POSC	Poultry Science		
48	PSYC	Psychology		
49	PSAA	Public Service and Administration		
50	RPTS	Recreation, Park and Tourism Services		
51	SOCI	Sociology		
52	SCSC	Soil Crop and Sciences		
53	EDCI, INST, MASC, MEFB, RDNG, TEED, TEFB	Teaching, Learning, and Culture		
54	VIBS	Veterinary Integrative Biosciences		
55	WFSC	Wildlife and Fisheries Sciences		
56	ENGR, ICPE	Dwight Look College of Engineering		College
57	ELID, ELIG, ELIL	English Language Institute		Institute
58	BUSN	Mays Business School		College
59	VMID	College of Veterinary Medicine		College
60	SENG	N/A	Safety Engineering	Interdepartmental Certificate Program
61	GEOS	N/A	Environmental Studies, Environmental Geoscience	Interdepartmental Degree Program
62	WGST	N/A	Women's and Gender Studies Program	Interdisciplinary Degree Program
63	AFST	N/A	Africana Studies	Interdisciplinary Minor
64	FILM	N/A	Film Studies	Interdisciplinary Minor
65	RELS	N/A	Religious Studies	Interdisciplinary Minor
66	UGST	Office of the Provost and Executive Vice President	Undergraduate Studies	
67	PHLT, PHPM, PHEO	School of Public Health		School - Public Health
68	CVEN	Zachry Department of Civil Engineering		
69	WMHS		Water Management and Hydrological Science	Interdisciplinary Degree Program

**Total Non-Related Departments**

	Subject Code	Department
1	ARTS, VIST, VIZA	Visualization
2	FINC	Finance
3	BICH	Biochemistry and Biophysics
4	BMEN	Biomedical Engineering
5	CSCE	Computer Science and Engineering
6	ISEN	Industrial and Systems Engineering
7	GENE	Genetics/Interdisciplinary Degree Program
8	MSEN	Materials Science and Engineering
9	PETE	Harold Vance Department of Petroleum Engineering
10	CHEM	Chemistry
11	LCSE	Learning Communities - Shared Experience
12	MATH	Mathematics
13	NRSC	Neuroscience/Interdisciplinary Degree Program
14	ASTR, PHYS	Physics and Astronomy
15	SPSC	Spatial Sciences/Interdisciplinary Degree Program
16	STAT	Statistics
17	VLCS	Veterinary Large Animal Clinical Sciences
18	VTPB, VTPP, VPAR, VPAT, VTMI	Veterinary Pathobiology
19	VSCS	Veterinary Small Animal Clinical Sciences
20	SOMS	School of Military Sciences

**Total Sustainability Course or Includes Departments and Equivalents\***

Official Departments: 52
Colleges: 7
Interdisciplinary Degree Programs: 2
Interdisciplinary Minors: 3
Interdepartmental Programs: 2
Institutes/Centers: 2
Schools: 1
<b>Total: 69</b>

**Total Non-Related Academic Departments: 20**

\* An academic department is an administrative division of a college, university, or school faculty that is devoted to a particular academic discipline (e.g. Economics, Environmental Science, Sociology). Departments may exist under other nomenclature and with coarser or finer divisions, depending upon each institution's context. Fields of study, programs, subject areas or the equivalent may be considered to be "departments" in the absence of traditional administrative divisions.