

STARS Report - Sustainability Undergraduate Courses, Fall 2013-Summer 2016

48 sustain

82 include sustain

(9 total, unless listed)

College	Department	Crse Prfx	Crse #	Course Title	Course Description (For courses identified as C courses, please include a description of how sustainability is integrated.)	S or C	Term Taught
ARTS	Architecture	ARC	4784	The City	The course examines the complex relationships between cities and design. The subject is approached through six modules and is comprised of both the historical development of cities highlighting trends and case studies, and by reviewing contemporary debates on the design of cities. The issues surrounding these debates will be centered on the built environment and the possibility of using design as a tool for social change. Module 6—Urbanism and Society presents an introduction to issues of sustainability in cities and includes requires a research paper on “Next Generation Cities” as a way to show student comprehension of how historical movements and modern day innovations demonstrate the creative use of the city’s assets, resources, and/or talent. Students are asked to think critically about ideas which can galvanize partnerships across sectors to expand the reach or scale of the solution(s) through a case study of a city, providing analysis of the strategies that make it exemplary.	C	201505, 201508, 201601, 201608
		ARC	4931	Scales of Resilience	NO ENROLLMENT	S	201508
		ARC	4931	The Sustainable City		S	201308, 201401, 201408, 201501, 201508

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BCS	<i>Criminology</i>	CCJ	4934	Issues in Green Criminology	Generally, this course examines environmental issues that serve as a foundation for studies related to green criminology, or the study of the scope of environmental harms and crimes, issues related to environmental justice, legal responses to green crimes, and solutions to green crimes. The exact topics examined vary from one semester to the next. With respect to sustainability (under C), relevant course materials address climate change, its effects, and methods for constraining climate change; poaching and wildlife smuggling, its effects and remedies; conceptualizing and addressing environmental justice as a green crime and justice concern, and responses to environmental injustice; and various forms of ecological destruction and their control (e.g., mountaintop removal mining; sand tar mining; water pollution; environmental activism and environmental social movement response; coal mining in the Appalachian mountains).	C	201308, 201301, 201408, 201401, 201508, 201501, 201608
CAS	<i>Anthropology</i>	ANT	4701	Applied Anthropology	Overview of the ways in which the subfields of anthropology can be used to address contemporary problems in diverse areas such as health, human rights, nutrition, cultural change, business, etc.	S	
		ANT	4403	Environmental Anthropology	Examines anthropological approaches to topics such as biodiversity conservation, historical ecology, climate change, water scarcity, environmental justice and health, indigenous knowledge and resource rights, food sovereignty, and environmental movements.	S	
		ANT	4442	Urban Life and Culture	Cross-cultural study of urbanization, urbanism, and human problems associated with metropolitan environments.	C	
		ANT	4472	Work and Migration in the Americas	Explores how neoliberal globalization has molded the terrains of power, oppression, and resistance in key immigrant-rich industries.	C	
		ANT	4930	Anthropology of Africa	Considers effect topics of globalization on African societies	C	201601, 201501
		ANT	4930	Climate Change and Development	Study of the science of climate change; our future under climate change; vulnerability, adaptation and resilience to climate change; UN sustainability goals, etc.	S	201601
		ANT	4930	Global Tourism	Critical analysis of the impact of tourism economically, ecologically, and culturally.	C	201408
		ANT	4930	Biocultural Bases of Health and Disease	Focus on the socio-cultural and evolutionary bases of health and disease.	C	201508, 201501
		ANT	4930	Evolution and Health	Considers the origins and causes of illness from an evolutionary perspective.	C	201508
		ANT	4462	Health, Illness and Culture	Evaluate the role of political economic factors on provision of health care, as well as the creation and elimination of health disparities.	C	

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		ANT	4532	Infectious Contagious Diseases	Situates infectious and contagious diseases in their historical and cultural context by looking at social conditions, such as inequality, that shape who gets sick, and who gets treatment.	C	
		ANT	4930	Anthropology of Food	Focus on the relationships between food and culture, including how cultural change and dietary change are related.	C	201401, 201508
	Chemistry	CHM	2210	Organic Chemistry	A few of our experiments in this curriculum are now sustainability focused/oriented and we have already applied very safe reagents and reactions in a couple experiments and we anticipate we will significantly save energy and minimize waste when we complete all experiments by the end of the semester.	C	201608
		CHM	2210L	Organic Chemistry	A few of our experiments in this curriculum are now sustainability focused/oriented and we have already applied very safe reagents and reactions in a couple experiments and we anticipate we will significantly save energy and minimize waste when we complete all experiments by the end of the semester.	C	201608
		CHM	4932	Sustainable Energy	This course aims to introduce students to concepts of sustainable energy conversion. Solar, wind, hydroelectricity, hydrogen, biomass and geothermal energy conversion methods as well as main storage technologies will be discussed. These major conversion methods will be quantitatively compared throughout the course with the main energy consumption pathways of human societies in different parts of the globe. Energy consumption of transportation, heating/cooling, food production and manufacturing of goods will be discussed. Energy savings potentials of the various consumption pathways will also be examined. After successful participation in this course students will be able to assess technological aspects of public energy policy, as well as have the foundation for advanced study of sustainable energy topics.	S	201308, 201408
	Communication	IDH	3400	Design Thinking	Sustainability is a central and key topic for this course in contemporary design thinking (taught by Communication professor in Honors College)	S	201601, 201608
		SPC	4714	Communication, Culture, and Community	A service learning course on Community maintenance and building. Sustainability is a central topic of student projects.	C	201501
	English	ENC	3246	Communications for Engineers	Focuses on writing concerns of engineers. Deals with the content, organization, format, and style of specific types of engineering documents. Contribute content to Wiki database promoting repair of devices to extend life verses filling landfill. Promotes ethical and economical solutions to sustainability problems with electronic devices.	C	201408- present

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		LIT	3301	Cultural Studies & Pop Arts	A study of twentieth century culture as it is represented in the film, fiction, and other cultural artifacts of many different nationalities. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. Note: Betty Moss' sections from Fall 2014 to present are themed "Planetary Concerns as Expressed in Literature," and have an extended course description.	C	201408-present
		ENC	4931	Sel. Topics: Public Scientific Controversy	Focus of the course will be determined by student demand and instructor interest. Topics to be covered may include legal writing, the conventions of business writing, writing in the medical fields, and writing for the social sciences. May be taken twice for credit with different topics.	C	201501
		LIT	4930	Selected Topics in English Studies / Florida Literature & Culture	The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be taken twice for credit with different topics.	C	201601
		AML	3604	African American Literature	A study of black American literature from the nineteenth century to the present, including the works of such writers as W.E.B. Dubois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.	C	201408-present
		AML	3630	U.S. Latino/a Lit in English	This 3000-level literature course surveys American English literature by Latino/Latina writers (with Spanish American ancestry). Authors may include Piri Thomas, Sandra Cisneros, Esmeralda Santiago, Luis Valdéz, Tomás Rivera, Oscar Hijuelos, etc.	C	201408-201608
		LIT	3383	The Image of Women in Lit	A study that seeks to trace the origins of contemporary views about women, to analyze major Eastern and Western literary portrayals of women, to examine ideas about women's roles, and to compare and contrast cultural and racial images of women. Will not be counted toward the major.	C	201408-present
		LIT	4386	British/American Lit by Women	Survey of women's literary tradition in England and America from the seventeenth century to the present. Thematic focus includes self, marriage, sexuality, madness, race and generations. Writing intensive.	C	201408-present
	Geosciences	EVR	2001	Intro to Environmental Sci	primary and explicit focus is on sustainability	S	
		EVR	2001L	Environmental Science Lab	includes one or more sustainability focused activities	C	
		EVR	2861	Intro to Environmental Policy	integrates sustainability issues throughout the course	C	
		EVR	4027	Wetland Environments	incorporates a unit or module on sustainability	C	
		EVR	4033	Environmental Regulation	integrates sustainability issues throughout the course	C	

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		EVR	4114	Climate Change	incorporates a unit or module on sustainability	C	
		EVR	4930	Sustainability and Development	primary and explicit focus is on sustainability	S	201508, 201601
		EVR	4372	Global Conservation	primary and explicit focus is on sustainability	S	201601
		EVR	4807	Sustainable Healthy Env.	primary and explicit focus is on sustainability	S	
		EVR	4930	Forest Ecology and Management	incorporates a unit or module on sustainability	C	201408, 201508
		EVR	4284	Water Resources Management	incorporates a unit or module on sustainability	C	
		EVR	4218	Research Methods: Wildlife Ecology	incorporates a unit or module on sustainability	C	
		EVR	2002	Environ. Sci (for GCP Students)	incorporates a unit or module on sustainability	C	
	History	HIS	3938	Climate Change	History of Climate Change – environmental sustainability is focus. Proposed by Dr. Levy. Previously taught as a graduate course.	C	201708
		HIS	3930	Gay and Lesbian US History	History of post-1945 LGBT+ issues in the US.	C	
		HIS	3938	History of AIDS	Global history of AIDS, including issues of access, rights, equality, and treatment.	C	201801
		AMH	4936/ 6939	History of Gender and Sexuality	History of sexuality in the US	C	Once per year
		HIS	3938	History of the End of the World	Human responses to environmental and political history	C	Last taught Fall 2015
	Humanities/AMS	AMS	3700	Racism in American Society	This course will help students understand the extent and causes of racism, anti-Semitism and prejudice in the U.S. They will learn how prejudice arises, the roots of racism, and its effects on society using lectures and videos.	C	Fall
		AMS	4210	Regions of America	The pattern of American culture as revealed through an examination of selected writings and other pertinent materials dealing with selected American regions.	C	Fall
		AMS	4804	Major Ideas in America	Investigates the role of one or more influential ideas in American culture, for example: individualism, identity, community, dissent, reform, utopianism, democracy. Emphasizes the critical analysis of a variety of primary texts. Topic varies	C	Fall
		AMS	4940	Internship in American Studies	A structured, out-of-class learning experience designed to provide first-hand, practical training in careers related to American Studies.	C	Fall & Spring
		HUM	1020	Introduction to the Humanities	Analysis of selected works of literature, music, film, and visual art, representing artists of diverse periods, cultures, genders, and races. Course emphasizes the social implications and effects of art on human societies.	C	Fall & Spring

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		HUM	2522	Introduction to the Cultural Study of Popular Music	An interdisciplinary examination of global popular music traditions as they affect race, class, and gender, and interact with commerce, technology, and politics. Students will combine critical listening with history and cultural analysis.	C	Spring
		HUM	2593	Science in Cultural Context	This course is an introduction to science studies, where students will engage with scientific texts and consider their production from a variety of historical, philosophical, and cultural views.	C	Fall
		HUM	3242	The Enlightenment	By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.	C	Fall
		HUM	3309	Introduction to Food Studies	An experiential course addressing historical and contemporary relationships between people and the food they produce/consume, focusing on the impact of industrialization through examination of visual arts, literature, and popular culture texts.	S	Spring
		HUM	3804	Introduction to Cultural Studies	An introduction to the ideas and skills needed for doing scholarly work in interdisciplinary cultural studies. An overview of central critical discussions including gender studies, postcolonialism, class and power relationships, and technology and media	C	Fall
		HUM	4391	Places, Spaces, and Regions	Focuses on relationships between geographical location and cultural dynamics. Emphases include the roles of natural environments, core-periphery relations, and local identities in the development of cultural practices. Topic varies.	C	Spring
		HUM	4581	Film and Media Theory	This advanced introduction to film and media theory offers students sophisticated tools for thinking critically and creatively about motion pictures and the psychological, cultural, political, and historical meanings they engender	C	Fall
		HUM	4825	Identity and Power	Focuses on the relationships between social power and individual or group identity. Emphasizes how discourses on race, class, gender, and/or nationality construct individual subjectivity and imagined communities. Topic varies.	C	Fall
		HUM	4940	Internship in the Humanities	A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community	C	Fall and Spring
		HUM	4941	Study on Location	The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures.	C	Summer
	Integrative Biology	BSC	1005	Principles of Biology	Overview of biology; Module on sustainable fisheries	C	

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		BSC	2050	Environment	Focus on environmental systems, environmental sciences, and sustainability.	S	
		BSC	3312	Marine Biology	Ecology, physiology, and biodiversity of the oceans; Module on sustainable fisheries.	C	
		PCB	3043	Principles of Ecology	Overview of ecological sciences; Modules on biodiversity, population growth, human impacts on environments, etc.	C	
		BSC	4933	Ecosystem Ecology	Overview of ecosystem function.	S	201601
		BSC	2011	Biodiversity	Evolution, ecology, and biodiversity; Module on human impacts to ecosystems.	C	
		BOT	4601	Plant Ecology	Overview of environmental issues of plants; Modules on biodiversity.	C	
		BSC	4933	Urban Ecology	Focus on role of humans in ecological functioning.	C	201608
	Interdis Global Stds	POT	4936	S.T./ Environ. Political Thought	Political philosophy concerning the environment.	S	201401, 201501, 201608
		INR	4935	S.T./ Sustainable Development	Examines international development from the perspective of sustainability	S	201601
	Interdis Social Sciences	ISS	3010	Introduction to Social Sciences	Integrates the range of social science fields into a global interdisciplinary perspective. Views social institutions and issues from perspectives of changing paradigms.	C	Every semester
		ISS	4935	Senior Seminar	The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of theoretical models to research on salient social issues.	C	Every semester
		STA	2122	Social Science Statistics	Descriptive and inferential statistics - through ANOVA, correlation-regression, chi-square and non-parametric. The course presents statistics with the view that numbers are a limited, but important aspect of understanding the world. Draws concepts and hypothesis from a wide range of disciplines.	C	Every semester
	Philosophy	PHP	4410	Kant	This is a course in Kant's practical philosophy, with emphasis on the categorical imperative. A learning goal (and tested on the midterm) is that universalizability is the form of sustainability and that humanity is the end of sustainability.	C	
		PHH	4820	Chinese Philosophy	Daoism is taught for half the course, and Laozi for half of Daoism. Laozi's Daodejing is the "Grundbuch" of sustainability. Daoism is recognized as the one philosophy that's green by definition (all others, Confucius', Kant's, need some tweaking). Laozi's Daodejing is a case for naturalism: natural processes have a direction with a normative aspect: act in accordance with the constraints of these processes.	C	

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		PHI	3640	Environmental Ethics	In Environmental Ethics, the topic comes up in the first and last quarters of the course. In the first quarter, topics are the great acceleration into the anthropocene, the overshoot of planetary boundaries, and thus the unsustainability of liberal market economy. In the last quarter, topics are climate change as the systemic symptom of overshoot, climate ethics, and the mitigation of climate change through the sustainability-transition towards decarbonization and steady-state economics.	C	
	Physics	PSC	2515	Energy and Humanity	Social, economic, and political aspects of energy. Includes energy conservation, environmental impact, energy-source alternatives, changing lifestyles, and personal use of solar energy. The relevant basic laws of physics and the scientific method are emphasized. Field trips and audiovisual presentations play important roles.	S	201308, 201608
		PHY	2049	General Physics II	General Physics for engineers and scientists: includes electricity and thermodynamics along with the theory of efficient air conditioners and electricity-generating plants.	C	Every term (3x/yr)
		PHY	4523	Statistical Physics	Statistical approach to thermodynamics: details of the theory of efficient engines, heat pumps, generators, thermal insulation.	C	201401, 201501, 201601
		PHZ	4434	Materials Physics	Crystal structure, phase, and electrical, thermal, optical, and magnetic properties of materials. Includes principles behind thermoelectric materials (for refrigeration with no moving parts and energy recovery in automobiles), efficient LED lighting (as recognized by the 2014 Nobel Prize in Physics), and solar cells.	C	201308, 201408, 201508
		PHY	2020	Conceptual Physics	A qualitative, non-mathematical investigation of physics, emphasizing its influence on life today. Covers ideas essential to any understanding of sustainability, including energy, heat, and electricity.	C	Every Fall & Spring, and 201605
	Religious Studies	REL	2164/ 2166	Intro to Religion & Ecology	Focus on religious response to contemporary ecological crisis.	S	201308, 201408, 201605
		REL	4931	Sem. Religion & Food	Includes solving problems engaged in earth charter.	C	201501
	Sociology	SYA	3110	Classical Theory	The analysis of the philosophical foundations, central principles, and historical development of Sociological theory.	C	
		SYA	3300	Research Methods	Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research.	C	

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		SYA	4304	Sociology Research Experience	A flexible-unit course for advanced undergraduate students interested in participating in an ongoing faculty research project. Students will complete selected research tasks (background research, data collection and data analysis) with faculty supervision.	C	
		SYA	4930	Mobilizing for Change	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201308, 201408, 201501
		SYA	4930	Sociology of Popular Culture	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201308, 201401, 201405, 201501
		SYA	4930	Environment and Society	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201308, 201401, 201405
		SYA	4930	Social Networks	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201308
		SYA	4930	Women, Crime & Justice	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201308, 201401
		SYA	4930	Political Sociology	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201308, 201401, 201501
		SYA	4930	Inequalities & Social Justice	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	Every Fall

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		SYA	4930	Social Complexity	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201401, 201501
		SYA	4930	Contemporary Bodies	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201401
		SYA	4930	Women and Social Justice	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201401, 201501, 201508
		SYA	4930	Children of Immigration	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201401
		SYA	4930	Gender & Social Movements	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201408
		SYA	4930	Stratification and Mobility	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201408
		SYA	4930	Sociology of Culture	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201408
		SYA	4930	Contemporary Feminist Theory	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201408

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		SYA	4930	Bodies, Minds, Society & Health	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201301, 201408, 201501
		SYA	4930	Sociology of Globalization	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201408
		SYA	4930	LGBT Youth in Education	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201501
		SYA	4930	Women, Sex and Knowledge	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201501
		SYA	4930	Social Movements	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201508, 201601
		SYA	4930	Intensive Food Research	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201601
		SYA	4930	Social Media and Globalization	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201601
		SYA	4930	Muslims in America	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201601

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		SYA	4930	Sociology of the Body	Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, family violence, sexualities, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester.	C	201601
		SYA	4935	Senior Seminar	The opportunity for senior Sociology majors to apply theory and methods to a selected topic of relevance in today's society. Topic changes by instructor.	C	Almost every semester
		SYD	3700	Racial and Ethnic Relations	Comparative study of interracial relations, social tensions, attitudes, and modes of adjustment in various areas of the world.	C	Almost every semester
		SYD	4238	Immigrants to America	Examines major sociological debates in the field of immigration with an emphasis on recent immigrants to the United States.	C	201508
		SYD	4411	Urban Life	This course provides a number of insights into how living in cities has changed throughout history, how it varies culturally, and how it has been theorized in sociology.	C	201408, 201601
		SYD	4800	Gender and Society	Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meanings, and consequences of gender differences, interpersonal relationships, and institutional participation.	C	201408, 201601
		SYG	2000	Introduction to Sociology	An introduction to sociological perspectives and methods and the basic areas of sociological interests such as socialization, gender, race and ethnic relations, deviance, social control, and social stratification.	C	Every semester
		SYG	2010	Contemporary Social Problems	The analysis of social causes and dimensions of major public issues such as crime, the environment, inequality, gender, employment, and substance abuse.	C	
		SYG	3011	Social Problems Through Film	Examines, through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems in a comparative, international perspective.	C	201601
		SYG	3235	Latina/o Lives	An exploration of the experiences of Latinas and Latinos in the United States. Examines such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.	C	201508

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		SYO	3120	Sociology of Families	With a goal to understand American families in the present, this course will examine variations in family types by social class, race, ethnicity, and historical era. Exploration of current controversies about how families should be organized and about what they should do for their members as well as social policies related to families.	C	201408, 201501, 201508, 201601, 201608
		SYO	3200	Sociology of Religion	An examination of the meanings of religion lived in experiences in the contemporary United States. Includes the construction and maintenance of religious meanings and communities, the impact of those meanings and communities on daily lives, use and impact of religious discourse in daily lives, social movements motivated by religious beliefs.	C	201401
		SYO	4250	Sociology of Education	Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of education systems.	C	201308, 201401
		SYO	4250	Medical Sociology	The study of disease and the sick person including the analysis of health practices, beliefs, and practitioners, the hospital as an organization, the cost, financing, and politics of health care.	C	201308, 201401
		SYO	4400	Disability and Society	Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.	C	201308, 201505, 201508, 201601
		SYO	4572	Hidden Structures of Social Life	Communication networks and the social structures that emerge in them constitute the subject matter for this course: structures of interaction in informal groups and formal organizations, social networks, and class and stratification structures.	C	201308, 201401, 201601
		SYP	3000	Social Psychology	An exploration of the social forces that help shape individual perceptions, behaviors, and personality. The study of ways individuals develop identity and self-worth.	C	
		SYP	3060	Sociology of Sexualities	Explores the interactions, among and between people, and people and institutions that form the boundaries through which sexualities are understood in the United States. Addresses interactions with and within medical and religious institutions, racial/ethnic cultures, families and popular culture.	C	
		SYP	4012	Emotions in Society	Examines the theories, concepts, and larger social contexts of emotions, and investigates sociological research on feelings such as anger and fear; pride and shame; love, friendship and sympathy; sadness and depression; grief and loss.	C	201308, 201401, 201501, 201508

College	Department	Crse Prfx	Crse #	Course Title	Course Description (For courses identified as C courses, please include a description of how sustainability is integrated.)	S or C	Term Taught
		SYP	4111	Identity and Community	This course is a sociological examination of the meanings of identity in the post-modern era. Topics will include the characteristics of identity at the levels of individuals, institutions, culture, and the processes of identity construction and changes.	C	201401, 201501, 201601
		SYP	4420	Consumer Culture	The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchantment, alienation, inequality, and the rise of the credit card society.	C	201401, 201501, 201505, 201508, 201601, 201608
		SYP	4510	Sociological Aspects of Deviance	The examination of the social construction of deviance: how deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.	C	201505
		SYP	4513	Elite Deviance	The course challenges traditional definitions of deviance by examining social harms caused by the very wealthy, corporations, and large organizations such as the federal government.	C	201401, 201608
		SYP	4550	Drugs and Society	Explores the social construction of substance use in the United States. Examines individual users and the popular perspectives on the causes of substance use and abuse such as the medical, psychoanalytic, and sociological models.	C	201401, 201408, 201501
		SYP	4650	Sport in Society	An examination of the broad issues concerning sport in both a historical and contemporary perspective. Sport will be viewed in relation to social institutions, economic considerations, mass media, and the sport group as a micro-social system.	C	201308, 201401, 201501, 201601
		SYP	4675	Animals & Society	Explores the complex role of non-human animals in human society by exploring how we, as humans, socially construct animals.	C	201408, 201508
		SYP	4763	Sociology of Childhood and Youth	Examines a variety of issues including: child-rearing; invention of adolescence; child abuse; children's schooling; juvenile delinquency; dating; children in the movies; children as consumers; youth culture and rebellion; transition into adulthood.	C	201401, 201508
	Women's & Gender Stds	WST	2250	Female Experience in America	This course explores the lives and experiences of women and girls in America from 1870 to the present, examining how issues of gender, race, class, ethnicity, and sexuality shaped both their experiences and our historical understanding of their lives.	S	201308- 201605

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		WST	2600	Human Sexual Behavior	The dynamics of human sexuality: biological, constitutional, cultural, and psychological aspects. The range of sexual behavior across groups. Sources of beliefs and attitudes about sex, including sex roles and especially female sexuality.	S	201308-201605
		IDS	2931	Intro to LGBTQ Culture	Explores the experiences of people who identify as lesbian, gay, bisexual, transgender and/or queer (LGBTQ) in the U.S. and how those experiences are shaped by individuals, the state, and artistic, legal, and medical discourses.	S	201408-201601
		WST	3015	Intro to Women's Studies	Survey of major issues relevant to the female experience. The women's movement: historical, psychological, socio- logical, anthropological perspectives.	S	201308-201605
		WST	3311	Issues in Feminism	Survey of major issues relevant to the female experience: marriage and the family, sexuality, work, creativity.	S	201308, 201408
		WST	3324	Women, Environment, and Gender	Course designed to: provide students with a basic understanding of relationships between women's physical, health and occupational environments; consider the position of women regarding environmental issues; examine role that women can and do play in effecting environmental change; and analyze concepts related to ecofeminism.	S	201308-201605
		WST	3412	Women in the Developing World	Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries.	S	201408, 201601
		WST	4002	Feminist Research Methods	The survey, design, and practice of qualitative and quantitative methods in feminist research.	S	201401, 201508
		WST	4110	Women and Social Justice	This course examines the complexities of transnational social justice for women by investigating health, violence, reproduction and work within the context of international human rights law, nationalist policies, and global capitalism.	S	201501, 201508
		WST	4262	Literature by Women of Color in the Diaspora	An introduction to contemporary women writers of color in the U.S.: Native Americans, African Americans, Asian Americans, and Chicanas/U.S. Latinas. Readings will include literature and contextual articles on historical and cultural issues.	S	201401, 201408, 201508, 201601, 201605
		WST	4310	History of Feminism in the US	A study of feminist critiques of American women's experiences and status, and their implications for women's lives, by 19th- and 20th-century theorists, and how adequately these various critiques address the intersections of gender, class, ethnicity, and race.	S	201401, 201501, 201601

College	Department	Crse Prfx	Crse #	Course Title	Course Description (For courses identified as C courses, please include a description of how sustainability is integrated.)	S or C	Term Taught
		WST	4320	Politics of Women's Health	Explores current issues and concerns in the conceptualization and delivery of health information and health care for women from a feminist perspective, with a special emphasis on ways in which we can inform and help ourselves.	S	201308, 201408, 201405, 201505, 201508, 201601
		WST	4350	Women and Science	An examination of selected issues related to women and the natural and physical sciences including: historical participation of women in science, current status of women in science, and feminist critiques of science as a discipline.	S	201505
		WST	4522	Classics in Feminist Theory	Introduces students to first and second wave feminist theories, which explain the pervasiveness of sexist, racist, classist, heterosexist bias in our everyday lives.	S	201308, 201401
		WST	4561	Contemporary Feminist Theory	An exposure to and an exploration of a wide range of current feminist theories and debates, as well as an examination of the possible political and practical implications for various theoretical positions.	S	201408, 201508
		WST	4390	Mixed Race Identities	This course provides an introduction to the discourses and debates surrounding multiracial/multiethnic/mixed race identities in the U.S.	S	201401, 201501
		WST	4930	Queer Film and TV	This course examines how "queerness" is figured within film and television and how film and television work to produce sexual identities, represent non-heteronormative sexualities, and both reify and challenge prevailing norms of gender and sexuality.	S	201405, 201505
		WST	4930	Women in the Middle East	Covers debates on the status of Middle Eastern women and their political, historical, cultural, geographical, social, educational, economical struggles and achievements.	S	201408
		WST	4930	Transnational Feminisms	This course will explore the histories, theories, methods, and politics of transnational feminisms. We will trace how feminist ideas and practices travel within and across national, political, economic, and cultural borders.	S	201501
		WST	4930	Sexuality Studies	A journey through some of the key concepts and issues in sexuality studies. Sexuality Studies is an emergent interdisciplinary field that looks at human sexuality from multiple angles – popular cultural, legal, psychological, artistic/literary, biological, political, historical, educational, sociological, anthropological, and more.	S	201605
		WST	4935	Capstone/Senior Project	Allows students to reflect on their learning experiences as women's studies majors, to reassess the processes and products of that experience, to plan for the future, and to integrate feminist theory and praxis.	S	201401, 201408, 201501, 201508

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		WST	4930	Internship WGS	Supervised work-and-learning experience in women's and gender studies under the direction of a University faculty member/administrator and an employee of a sponsor organization.	S	201401, 201408, 201501, 201508, 201601
COB	<i>Info Sys/Decision Sci</i>	MAN	4282	Organizational Assessment	Assessing triple bottom line performance of business organizations	S	Fall, Winter
	<i>Marketing</i>	MAR	4824	Marketing Management Problems	Ethical and Social Responsibility for Sustainable Marketing	C	201308- 201605
		MAR	3613	Marketing Research	Sustainability is discussed in regards to environmental scanning and target marketing. Multiple examples are used to demonstrate changes in customer preferences, impacts on packaging, etc.	C	201308- 201605
		MAR	4933	Supply Chain Management	Sustainability is integrated throughout the course, tying together topics ranging to its relationship with demand forecasting, transportation and logistics of inventory management, lean manufacturing, and many others.	C	201301, 201401, 201501
EDU	<i>Teaching & Learning, Leadership Adult Career Higher Education, Stavros Center, David C. Anchin Center</i>	SSE	4313	Teaching Elementary (K-6) Social Studies *Dr. Michael Berson	This course is designed to study techniques and strategies employed by social studies teachers that are effective in motivating elementary school aged youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Sustainability is addressed throughout instruction on the social studies themes of People, Places and the Environment; Production, Distribution and Consumption; and Science, Technology and Society. Students participate in Population Education workshop training and integrate these curricular resources into their teaching and instruction. Connections to children's literature and other web resources are also highlighted.	C	Fall, Spring
		EEC	4212	Integrated Curriculum: Social Sciences, Humanities, and Art * Dr. Ilene Berson (contact)	This course develops an understanding of appropriate curriculum and instruction in social science, humanities, and arts for young children in grades PreK-3 with an emphasis on integrated experiences. Sustainability is addressed throughout instruction on the social studies themes of People, Places and the Environment; Production, Distribution and Consumption; and Science, Technology and Society. Students participate in Population Education workshop training and integrate these curricular resources into their teaching and instruction. Connections to children's literature and other web resources are also highlighted.	C	Fall

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		EEC	4211	Science for Young Children * Dr. Ilene Berson (contact)	The purpose of this course is for pre-service teachers to apply research-based learning theories to plan and teach science effectively in the Early Childhood classroom. The course includes a focus on social and cultural issues in the sciences as well as global implications of scientific discovery and innovation.	C	Fall
		EDE	4504	Creating & Differentiating the Learning Environments in Elementary Schools ** Dr. Latzke, Dr. Burns	This course examines various approaches to managing the elementary instructional environment and specific strategies for maintaining a safe, positive classroom climate. Through content focused upon creating inclusive, equitable, and socially just environments supportive of students of any culture, background, and gender, the following principles from the Earth Charter are reinforced: Principle 1-Item 3a and Principle III-Items 9c, 11a, 11b, 12a, 12c, 14a, 16a, 16b, & 16f	C	Fall
		ESE	4322	Classroom Management *Dr. Ellerbrock	<p>The following are directly or indirectly included as part of the fundamental essentials of a positive classroom learning environment and the role a teacher plays in establishing such a learning environment</p> <p>I. RESPECT AND CARE FOR THE COMMUNITY OF LIFE</p> <p>2. Care for the community of life with understanding, compassion, and love.</p> <p>b. Affirm that with increased freedom, knowledge, and power comes increased responsibility to promote the common good.</p> <p>3. Build democratic societies that are just, participatory, sustainable, and peaceful.</p> <p>a. Ensure that communities at all levels guarantee human rights and fundamental freedoms and provide everyone an opportunity to realize his or her full potential.</p> <p>III. SOCIAL AND ECONOMIC JUSTICE</p> <p>9. Eradicate poverty as an ethical, social, and environmental imperative.</p> <p>c. Recognize the ignored, protect the vulnerable, serve those who suffer, and enable them to develop their capacities and to pursue their aspirations.</p> <p>12. Uphold the right of all, without discrimination, to a natural and social environment supportive of human dignity, bodily health, and spiritual well-being, with special attention to the rights of indigenous peoples and minorities.</p>	C	Fall, Spring, Summer

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					a. Eliminate discrimination in all its forms, such as that based on race, color, sex, sexual orientation, religion, language, and national, ethnic or social origin.		
ENG	Electrical Engineering	EEL	4283	Sustainable Energy	This course aims to introduce students to concepts of sustainable energy conversion. Solar, wind, hydroelectricity, hydrogen, biomass and geothermal energy conversion methods as well as main storage technologies will be discussed.	S	
		EEL	4936	Nanostructures/Matl-Sustainable Systems	This interdisciplinary course addresses these issues from an Electrical Engineering perspective, e.g. what materials are used to make sustainable filters, sensors, solar cells, bio energy, etc.. In addition, a review of what makes a system sustainable, how should you analyze a sustainable system, and how can you get parametric data from material models proposed for sustainable systems. Approaching sustainability from a design perspective requires the need for a fundamental conceptual shift from the current paradigms of product toward a more sustainable system based on efficient and effective use of benign materials and energy.	C	
	Chemical & Biomed Eng	ECH	5785	Sustaining the Earth: An Engineering Approach		S	
		EVR	2217	Energy, Environment, and Sustainability		S	
	Civil & Environ Eng	CGN	4933	Green Infrastructure for Sustainable Communities	See syllabus attached (??)	S	201308, 201408, 201508
		CGN	4933	Green Engineering for Sustainability	This course will provide a foundation for green engineering design. Concerns regarding population growth, global warming, resource scarcity, globalization, and environmental degradation have led to an increasing awareness that current engineering design and policy strategies can be engaged more effectively to advance the goal of sustainability. Approaching sustainability from a design perspective requires the need for a fundamental conceptual shift from the current paradigms of product toward a more sustainable system based on efficient and effective use of benign materials and energy.	S	201401, 201501, 201601
		ENV	4001	Environmental Systems Engineering	An introduction to various aspects of environmental problems faced by today's society. Topics covered are: air pollution, water pollution, noise pollution, solid waste management, ionizing radiation, disease transmission, and food protection. C: Sustainable design, engineering & innovation	C	Spring and fall semesters

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	Computer Science & Eng	CIS	4930	Low Power VLSI Design	Design of computer circuits that consume as little power as possible. This was an advanced undergraduate elective for our Computer Engineering students (not suitable for non-majors)	S	201601
	Mechanical Eng	EML	4503	Sustainable Design & Materials	This course integrates sustainability into the design of engineered products. Topics include materials selection and function performance, design for the 4 R's, end-of-life concerns and products life cycle assessment methods.	S	201601
COPH	Comm & Family Hlth	HSC	4172	Women's Health: A Public Health Perspective	Women's Health is an elective course in the College of Public Health at the University of South Florida (USF). There are no specific pre-requisites for	C	
		HSC	4211	Health, Behavior and Society	This course is designed to introduce students to an ecological perspective of health, specifically how health is shaped by various health determinants, including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, culture, the physical environment, policies and globalization. Case studies of current public health problems will be presented to enhance understanding of how these factors interact with one another and contribute to public health problems of interest. Course learning objectives that relate to sustainability include: 2. Understand the ecological perspective and how the ecological levels impact public health and health behavior. 3. Identify and explain the multiple determinants of health and their influence on health and behavior. 4. Convey the dynamic nature of health and illustrate the interconnectedness of the determinants of health and ecological levels. 6. Evaluate public health problems/issues identified in the mass media from an ecological perspective/determinants approach. 7. Consider health determinants from a personal perspective. Course assessments include identifying current events relevant to various topics and a PhotoVoice Project in which students identify campus specific barriers and benefits to an objective selected from Healthy Campus 2020.	C	

College	Department	Crse Prfx	Crse #	Course Title	Course Description (For courses identified as C courses, please include a description of how sustainability is integrated.)	S or C	Term Taught
		HSC	4582	Health Education Methods, Communication and Advocacy (also known as Health Education Methods and Strategies)	The purpose of this course is for students to describe and develop those health education methods, communication and advocacy strategies to enhance the public's health. Course learning objectives that relate to sustainability include: 1. Provide an overview of major health education theories and related ethical principles. 2. Describe feasible health education communication strategies in reaching diverse populations. 3. Provide guidelines on how to most effectively work with the media on health education issues. 4. Discuss the development and implementation of health education communication methods and strategies for individual, group, and community/organizational level changes. 5. Describe the role of advocacy and working with the legislature to effect positive changes in health. 6. Develop and present a communication plan to reach a diverse group. The major assessment is the development of a health communication plan to address a health issue impacting society.	C	201408, 201505, 201605
		HUN	3126	Food and Culture	Food and Culture identify the meanings of food among different cultures, and explore the ways in which geography; cultural, political and economic forces interact to influence our food choices, health and nutritional status. Course learning objectives that relate to sustainability include: 1. Explain how societal and personal economics affect food intake and nutritional adequacy of diets. 2. Identify and discuss common foods and meal composition of various cultural/ethnic groups. 3. Explain how food and eating habits influence the health of a community 4. Discuss the impact practice and facilitation of pleasurable eating in a variety of cultural/ethnic groups. 5. Identify and discuss factors affecting food and nutrition on various cultural groups. Assessments that are tied to sustainability include visits to an Ethnic Food Market, a cultural group presentation	C	201501, 201505, 201601

College	Department	Crse Prfx	Crse #	Course Title	Course Description (For courses identified as C courses, please include a description of how sustainability is integrated.)	S or C	Term Taught
		PHC	4933	Introduction to Health Disparities & Social Determinants of Health	This course will use a social ecological framework to provide a broad overview of health disparities in the U.S. and multi-level factors influencing those disparities. We will also examine social and cultural determinants of health, including race/ethnicity, geography, socioeconomic position, gender, sexual orientation, disability status, migration status, age, religion and spirituality. Course learning objectives that relate to sustainability include: 1. Develop a foundational understanding of disparities in health and healthcare in the U.S. 2. Develop a broad understanding of root causes of health disparity and social determinants of health 3. Develop the knowledge and skills necessary to generate solutions for addressing health disparities through cultural competence, policy and evidence-based intervention.	C	201608 (new course)
	<i>Environ & Occu Hlth</i>	HSC	4933	Ecotoxicology	Fundamental concepts in ecotoxicology (source, fate, transport, and toxicity of contaminants) and processes by which pollutants are tested, evaluated, regulated, and monitored to ensure ecological health will also be covered.	C	201408
		PHC	3302	Introduction to Env. & Occ. Health	Introduces the principles of environmental health from a public health perspective. Course focuses on the environment, assessment of risk, human	C	201608
		PHC	3320	Env. Health Science	Major environmental health problems including water quality, wastewater, trace elements in the environment, municipal and hazardous waste, food protection, vector control, air quality exposure to toxic chemicals, environmental justice, regulations, and safety in the work place are discussed.	C	201608
	<i>Undergrad Program</i>	HSC	2100	Contemporary Health Science	This course focuses on various health topics including those related to personal wellness, public health, infectious & chronic disease, and contains one unit on environmental health. Environmental health content focuses on the impact of human activity on the environment at the introductory level.	C	Fall, Spring, Summer
		PHC	4942	Public Health in Panama	This course provides the student with a broad overview of public health services and agencies in Panama. Agencies visited include those related to social services, waste, indigenous health, nutrition, safety, and environmental health. The environmental health content is at the intermediate level.	C	Summer

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		PHC	4101	Overview of Public Health Programs and Policies	This course provides the student with a broad overview of public health. It will cover the basic definition of public health, analytical methods used in public health, the biomedical basis of public health, social and behavioral factors related to health interactions and environmental and medical care issues. Environmental health content is infused into a total of 6 unit topics including: population, clean air, clean water, safe food and drugs, emergency preparedness, and public health in the 21 st century all at the intermediate level.	C	Fall, Spring, Summer

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						(9 total, unless listed)
College	Department	Crse Prfx	Crse	Course Title	Description	Term Taught
Arts & Sciences	Africana Studies	AFA	6355	African American Community Research: Ethnography	This course is designed to assist students in understanding the dynamics of African American communities and community research in urban settings.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Anthropology	ANG	6153	Topics in North American Archaeology	Comprehensive understanding of the prehistoric development of American Indian cultures in the main geographical regions, with emphasis on current issues in cultural resource management. Repeatable for up to 6 hours.	201401, 201501, 201508, 201601
Arts & Sciences	Anthropology	ANG	6165	Topics in South American Archaeology	This course introduces the prehistoric and early historic cultural chronology of the South American continent, with an emphasis on current research and controversies and perspectives from cultural ecology. Repeatable for up to 6 hours	201401, 201501, 201601
Arts & Sciences	Anthropology	ANG	6393	Anthropology, Contemporary Culture and the Media	Course entails the anthropological study of the roll of media in contemporary culture. Selected issues include the cultural impact of images and gender/ethnic stereotypes. Special attention will be paid to ethnographic studies of media audiences, and a central theme will be the roll of media in a global, multi-cultural context.	
Arts & Sciences	Anthropology	ANG	6447	Selected Topics in Urban Anthropology	Current topical issues in Urban Anthropology. Open to non-majors.	201401, 201501, 201601
Arts & Sciences	Anthropology	ANG	6448	Regional Problems in Urban Anthropology	Contemporary problems in Urban Anthropology in the context of a specific region. Open to non-majors.	201305, 201405, 201505
Arts & Sciences	Anthropology	ANG	6533	Anthropology of Human Growth and Development	Overview of human growth and development from a perspective that combines biological and cultural approaches in anthropology.	
Arts & Sciences	Anthropology	ANG	6536	Bioarchaeology	Overview of methods and theories used to study the relationship between behavioral, cultural, and environmental factors and human biology, as reflected in human skeletal remains.	
Arts & Sciences	Anthropology	ANG	6570	Nutritional Assessment	Overview of basic nutritional assessment methods used in anthropology, nutritional sciences, and public health.	201601
Arts & Sciences	Anthropology	ANG	6585	Theories in Applied Bioanthropology	A survey of the major theoretical frameworks and quantitative and qualitative methodologies commonly used in biological anthropology research.	
Arts & Sciences	Anthropology	ANG	6701	Contemporary Applied Anthropology	A critical survey of Applied Anthropology as practiced today in the major branches of Anthropology, focusing on Applied, Medical, and Urban Anthropology. Open to non-majors.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Anthropology	ANG	6732	Global Health from an Anthropological Perspective	The aim of the course is to situate the debate about what is 'global health' clearly in an anthropological perspective.	201601
Arts & Sciences	Anthropology	ANG	6735	Reproductive Health	An in-depth examination of major issues related to sexual and reproductive health in both domestic and international settings, with emphasis on perspectives from medical anthropology, public health, and women studies.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Arts & Sciences	Anthropology	ANG	6745	Forensic Anthropology	Provides a general introduction to the methods, theories, and techniques of Biological Anthropology as applied to medico-legal death investigations.	
Arts & Sciences	Anthropology	ANG	6766	Research Methods in Applied Anthropology	Research design, data collection, and data analysis for Applied Anthropologists with urban and medical interests. Emphasis will be on non-quantitative research methods. Open to non-majors.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Anthropology	ANG	7709	Applied Anthropology and Human Problems	Examination of specific problem areas of social significance and policy relevance. Typical offerings include: substance abuse, disease, mental health, international development, urban design, and education. Open to non-majors.	
Arts & Sciences	Anthropology	ANG	7938	Doctoral Proseminar in Applied Anthropology	Emphasizing the process of doing "four-field" anthropology (biological, archeological, linguistic, and cultural), conceptualizing research questions, identifying, gathering and analyzing data. How application and theory are integrated and how this integration is vital to the conduct of good anthropology with a variety of anthropological ideas.	
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	MCB	5206	Public Health and Pathogenic Microbiology	A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.	201305
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	MCB	5208	Cellular Microbiology	Cellular Microbiology is a lecture-based and literature-based course on the interactions between mammalian cells and microbial pathogens and/or their toxins, with a special emphasis on bacteria.	
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	5256	Developmental Mechanisms	Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors	
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	MCB	5815	Medical Mycology	A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.	201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6107	Advanced Cell Biology	Detailed examination of the structure, function and molecular biology of eukaryotic cells.	201308, 201408, 201508
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6205	Cancer Biology III - Cancer Genomics and Drug Discovery	An exploration of the normal and abnormal cancer biological processes as they pertain to regulation of the genome and of novel cancer gene discovery approaches, as well as methodological and conceptual approaches to oncologic drug design and development.	201401, 201501, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6230	Cancer Biology I - Basics of Molecular Oncology	An introduction to the basics of molecular oncology. Topics will include cytoplasmic and nuclear oncogenes, cell cycle control, apoptosis, tumor suppressor genes and cancer drug discovery.	201308, 201408, 201508

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6231	Cancer Biology II - Immunology And Applied Biology	An exploration of the normal and abnormal immune development and function as well as the basic and applied aspects of tumor immunology.	201401, 201501, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6236	Advanced Immunology	Discussion of the basic immune reaction, nature of antigenicity; basic immunological techniques and their use in biological research and the medical sciences. Lec/Lab.	
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6275	Cell Signaling	A detailed examination of the cellular, biochemical, and molecular mechanism involved in signal transduction in various eukaryotic organism with emphasis on reviewing recent experimental evidence.	
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6526	Cancer Biology IV - Concepts and Techniques in Cancer Genetics	This course will explore major concepts in Cancer Genetics, how they are derived from experimental results and how they can be applied to outstanding problems in Cancer Biology.	201308, 201408, 201508
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6910	Cancer Biology Lab Rotations	This course is designed to help the students choose a compatible Major Professor and allow students to develop necessary technical skills. It is graded on a satisfactory (pass) or unsatisfactory (fail) basis.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6920	Advances in Cell and Molecular Biology	A journal club in which graduate students present and discuss research publications from the preceding twelve months in the fields of molecular and cellular biology.	201308, 201408, 201501, 201508
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	MCB	6930	Graduate Microbiology Seminar	A critical examination and discussion of current literature of microbiology.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6930	Current Topics in Cancer Biology	Renowned speakers from outside the USF Community will give weekly seminars on topics in oncology. Participants will meet weekly with the speakers and discuss the current state of the art.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6931	Advances in Cancer Biology Research	Advances in Cancer Research – Two participants will read and orally present current breaking research. They will gain experience in critically evaluating research reports and receive critique on presentation skills.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	PCB	6932	Bioethics for Cancer Researchers	Explore the key issues of responsible conduct of research facing the cancer biologist. The course will use interactive open discussion sessions focused on individual ethics topics in cancer research.	201308, 201408, 201508

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	BSC	6939	Selected Topics in Cancer Biology	Provides in-depth study of a single aspect of cancer biology. Topics offered vary by semester.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Biology - Cell, Microbiology and Molecular Biology	BSC	7911	Directed Research in Cancer Biology	Student research will be performed under the guidance of Ph.D. prior to formation of dissertation committee.	
Arts & Sciences	Biology - Integrative	PCB	5307	Limnology	An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.	
Arts & Sciences	Biology - Integrative	MCB	5655	Applied and Environmental Microbiology	A Study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.	201308, 201408, 201508
Arts & Sciences	Biology - Integrative	BSC	5931	Selected Topics in Biology		201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Biology - Integrative	PCB	6447	Community Ecology	In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured.	201308, 201408, 201508
Arts & Sciences	Biology - Integrative	PCB	6455	Statistical Ecology	Introduction to exploratory data analysis in ecology. Techniques for dealing with encountered data are emphasized.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Biology - Integrative	PCB	6458	Biometry II	Fundamental concepts in the design of experiments for biological research. Factorial experiments, multiple regression analyses, analyses of covariance and SAS computer programs are emphasized. Lec/Lab.	201401, 201501
Arts & Sciences	Biology - Integrative	BSC	6930	Lectures in Contemporary Biology	This Biology lecture series includes a diversity of contemporary topics including: molecular regulatory mechanics, evolutionary genetics, organismal physiology and community ecology.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Biology - Integrative	BSC	6932	Selected Topics in Biology		201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Biology - Integrative	PCB	6933	Seminar In Ecology	A detailed examination of topics in ecology pertaining to individual organisms, populations, communities and/or ecosystems.	
Arts & Sciences	Biology - Integrative	BSC	6935	Graduate Seminar in Biology		201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601

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Arts & Sciences	Biology - Integrative	BSC	7936	Doctoral Seminar	Graduating Ph.D. students will present a formal seminar based upon their dissertation to the Department of Biology and the public. Restricted to majors.	
Arts & Sciences	Biology - Integrative	PCB	5307L	Limnology Laboratory	Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.	
Arts & Sciences	Biology - Integrative	ZOO	5456L	Ichthyology Lab	Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.	
Arts & Sciences	Biology - Integrative	ZOO	5463C	Herpetology	Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.	
Arts & Sciences	Biology - Integrative	ENY	5505C	Aquatic Entomology	Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.	
Arts & Sciences	Biology - Integrative	ZOO	5555C	Marine Animal Ecology	Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.	
Arts & Sciences	Biology - Integrative	PCB	6365C	Physiological Ecology	Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism.	
Arts & Sciences	Biology - Integrative	PCB	6426C	Population Biology	Introduction to population dynamics with emphasis on the ecological components of growth, competition, and perdition.	
Arts & Sciences	Biology - Integrative	PCB	6456C	Biometry	An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis.	
Arts & Sciences	Chemistry	BCH	5045	Biochemistry Core Course	A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates.	
Arts & Sciences	Chemistry	BCH	5105	Biochemistry Laboratory Rotations	A course in which first year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.	
Arts & Sciences	Chemistry	CHM	5225	Intermediate Organic Chemistry I	This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.	
Arts & Sciences	Chemistry	CHM	5226	Intermediate Organic Chemistry II	An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Semester II.	201401
Arts & Sciences	Chemistry	CHM	5452	Polymer Chemistry	Fundamentals of polymer synthesis, structure, properties, and characterization.	
Arts & Sciences	Chemistry	CHM	5621	Principles of Inorganic Chemistry	Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course.	201401
Arts & Sciences	Chemistry	CHM	5931	Selected Topics in Chemistry	The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.	201308

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Arts & Sciences	Chemistry	CHM	6036	Chemical Biology	Current research directions in chemical biology. Topics include chemical and biosynthesis of peptides, proteins and nucleic acids, genetic and protein engineering, combinatorial chemistry, targeted probes and imaging, bioorthogonal reactions, etc.	201601
Arts & Sciences	Chemistry	CHM	6150	Advanced Analytical Chemistry	A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.	201401, 201501, 201601
Arts & Sciences	Chemistry	CHM	6250	Advanced Organic Chemistry I: Synthesis	Detailed consideration of modern synthetic methods. Lec.	201308, 201408, 201508
Arts & Sciences	Chemistry	CHM	6263	Advanced Organic Chemistry II: Physical-Organic	Organic reaction mechanisms emphasizing the interpretation of experimental data. Lec.	
Arts & Sciences	Chemistry	CHM	6810	Methods of Instruction in Higher Ed Chemistry	This course presents pedagogical approaches associated with evidence-based effective instruction for postsecondary chemistry education.	
Arts & Sciences	Chemistry	CHM	6935	Graduate Seminars in Chemistry	Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Chemistry	CHM	6936	Chemistry Colloquium	Frequent (usually weekly) small-group analysis of current developments.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Chemistry	CHM	6938	Selected Topics in Chemistry	Representative titles taught include: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Chemistry	CHM	6945	Investigating Chemical Education Research in the United States	Introduction to the field of Chemical Education Research including the types and kinds of research conducted, primary publication venues, seminal and recent research contributions.	
Arts & Sciences	Communication	COM	6121	Organizational Communication	A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.	201305, 201308, 201405, 201408, 201505, 201508
Arts & Sciences	Communication	COM	6418	Communication and Systems Practice	Systems theories offer possibilities for understanding interconnections and emergence, identities and environments, and stability and change, with communication processes being central. We explore social systems principles by linking theory and praxis.	201305, 201401, 201405, 201501, 201505, 201508, 201601
Arts & Sciences	Economics	ECO	6005	Introduction to Economic Concepts for Managers	A graduate level introduction to the economic foundations of decision making, this course addresses the fundamental tools of micro and macroeconomic analysis and how they can be applied to firms operating in both domestic and global markets.	201305, 201308, 201401, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Economics	ECP	6305	Environmental Economics and Policy	An economic analysis of business's and the government's approach to managing environmental issues. The focus of the course is on the analysis of case studies of specific environmental issues using fundamental efficiency analysis.	
Arts & Sciences	Economics	ECP	6614	Urban Economics	Economics of growth and development of urban areas, interurban location patterns.	

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Arts & Sciences	Economics	ECP	6624	Regional Economics	Geographical allocation of resources within and among regions, location of households and firms, inter-regional migration of labor and capital, regional growth and development, regional policy.	
Arts & Sciences	Economics	ECO	6705	International Economic Issues	Analysis of international economic relations and institutions. Analysis of the effects of changing economic conditions and policy on the climate for international business and investment.	
Arts & Sciences	Economics	ECO	6708	Global Economic Environment of Business	Determination of prices, employment, and output in domestic and international settings.	
Arts & Sciences	Geosciences	GIS	5049	GIS for Non-Majors	An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Geosciences	GIS	5075	Global Positioning Systems	Examination of the theory, operation and application of Global Positioning Systems (GPS).	201305, 201308, 201401, 201408, 201501, 201508
Arts & Sciences	Geosciences	GLY	5786	Geological Field Excursion	Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.	
Arts & Sciences	Geosciences	GLY	5865	Statistical Models in Geology	Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.	
Arts & Sciences	Geosciences	GLY	5932	Selected Topics in Geology	Each topic is a course under the direction of a faculty member. All areas of geology included.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6058	Geographic Literature and History	The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.	201308, 201408, 201508, 201601
Arts & Sciences	Geosciences	GLY	6075	Greenhouse-Icehouse Earth	This course is designed to investigate the differences between green- and icehouse climates through an examination of both the data employed to reconstruct past climates and the impact these changes have had on the Earth System.	201308, 201408, 201508
Arts & Sciences	Geosciences	GIS	6100	Advanced Geographic Information Systems	Spatial problem solving utilizing GIS mapping and statistical methods. The course is designed to give students hands-on experience in using computerized techniques for geographic analysis.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	EVR	6101	Geomorphology for Environmental Scientists	Course will explore the evolution of landscapes, natural processes that alter Earth's surface, and rates of change in the surficial environment. The course will emphasize topics relevant to environmental scientists in Florida - esp. soils, karst, & coasts.	

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Arts & Sciences	Geosciences	GIS	6103	Programming for GIS	Examination of the concepts and techniques for customization of Geographical Information Systems (GIS) using object-oriented programming.	201305, 201308, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GIS	6112	Spatial Database Development	Development and management of spatial data for use in a Geographic Information System (GIS), including creating, editing, modifying and validating spatial data.	201401, 201501, 201601
Arts & Sciences	Geosciences	GEO	6115	Advanced Field Techniques	Field examination of one region. Students will complete field work in human and physical geography in a selected area.	201401, 201501
Arts & Sciences	Geosciences	GEO	6116	Perspectives on Environmental Thought	Analysis of the evolution of the major schools of environmental thought from antiquity to present-day green analysis, deep ecology, ecofeminism, and post-modern ecology.	201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6119	Geographical Techniques and Methodology	Analytic study of a technique or investigation into an aspect of methodology.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6166	Multivariate Statistical Analysis	Examination of advanced statistical approaches used by geographers. Descriptive, spatial and inferential statistics and multi-variate analysis are highlighted.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEA	6195	Seminar in Advanced Regional Geography	Analytic study of a selected region of the world.	
Arts & Sciences	Geosciences	GEA	6215	Seminar in North American Geography	Advanced survey of historical and contemporary issues in North American geography including: west and non-west exchange, revolutionary transformation, nation-building, regional disparities, and continental relations among states.	
Arts & Sciences	Geosciences	EVR	6216	Advances in Water Quality Policy and Management	Conceptual structure and practical implementation of U.S. watershed-based water quality regulations and policies. Practical application of scientific information and quantitative methods in management/policy decisions for water quality protection.	201401, 201501, 201601
Arts & Sciences	Geosciences	GLY	6246	General Geochemistry	Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6255	Weather, Climate, and Society	This course explores the societal impacts of weather as well as the human impact on weather and climate. Students lead and participate in discussions on topics such as weather hazards, extreme temperature and human physiology, historical civilization and extreme climate, economic value of forecasts, weather modification, urbanization and other land use change, anthropogenic aerosols, past and future climates.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GLY	6255	Tracer Geochemistry	The use of trace elements and isotopic ratios as tools for understanding geologic processes. The collection and interpretation of trace element/isotopic data. Lecture/Discussion/Lab.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	Geosciences	GEO	6286	Advances in Water Resources	Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments.	201401, 201501, 201601

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Arts & Sciences	Geosciences	GIS	6306	Environmental Applications of Geographic Information Systems	Examination of GIS applications in agriculture, forestry, wildlife management, biodiversity conservation, environmental assessment, water resources, and pollution modeling. Use of advanced GIS analysis techniques relevant to the specific applications.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GIS	6307	GIS Seminar	Analytic study of selected topics in GIS. The course will familiarize students with case studies involving GIS applications in environmental studies, coastal modeling, and urban planning.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	EVR	6320	Environmental Management	This course introduces the students to environmental management from technical and non-technical perspectives. The major topics covered will be water and air quality, environmental sustainability, collaboration and building consensus.	201308, 201408, 201508
Arts & Sciences	Geosciences	GEO	6345	Technological Hazards and Environmental Justice	Examination of theories, debates, methods, and models that improve our understanding of human vulnerability to technological hazards and risks, with emphasis on issues of fairness and equity in the distribution and impact of hazards.	201401, 201501, 201601
Arts & Sciences	Geosciences	GIS	6355	Water Resources Applications of GIS	Examination of GIS applications in water resources, including watershed analysis, pollution modeling, and water resources modeling. Use of advanced GIS analysis techniques relevant to the specific applications.	
Arts & Sciences	Geosciences	GEA	6406	Seminar in Latin American and Caribbean Geography	Readings and discussions organized around an examination of regional and systematic analysis of selected topics of Latin American and Caribbean geography. Emphasis is on combining physical and cultural analysis of this region.	
Arts & Sciences	Geosciences	EVR	6408	Wildlife Ecology	Population ecology, animal behavior, food resources, habitat resources, wildlife diseases, predation, competition, wildlife and water, wildlife and soils, hunting and trapping, exotic wildlife, urban wildlife, and conservation.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6428	Seminar in Advanced Human Geography	Analytic study of a problem selected from aspects of the human landscape (urban, political, economic, population, settlement).	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6475	Political Geography Seminar	Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policy making.	201308, 201408, 201508
Arts & Sciences	Geosciences	GLY	6492	Hydrogeology Internship Project	Internship project in applied hydrogeology. Required for hydrogeology-internship MS program (minimum 3 hours).	
Arts & Sciences	Geosciences	GEA	6504	Seminar in European Geography	Readings and discussions organized around an examination of regional and systematic analysis of selected topics of European Geography. Emphasis is on combining physical and cultural analysis of this region.	
Arts & Sciences	Geosciences	GEO	6545	Economic Geography Seminar	An intensive examination of selected issues in economic geography including: regional development and decline; spatial labor market trends; business locational analysis; and comparative economic policy.	

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Arts & Sciences	Geosciences	GLY	6557	Facies Models	Characterization of facies models for stratigraphic sequences representing terrestrial, transitional and marine sedimentary environments. Emphasis on textures, structures and composition of strata and their environmental interpretation in the rock record.	
Arts & Sciences	Geosciences	GLY	6573	Fluvial Hydrology and Geomorphology	The course covers the mechanics of open channel flows, primarily to understand the potential energy available to do work, and the geomorphic responses to work, including channel initiation, sediment transport, and channel adjustment.	201401, 201501
Arts & Sciences	Geosciences	GEO	6605	Contemporary Urban Issues	Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city ethnic relations, the geopolitics of urban governance, and urban culture.	201308, 201408, 201508
Arts & Sciences	Geosciences	GEO	6627	Site Feasibility Analysis	A project-oriented geographic examination of urban real estate development and site feasibility practices. Hands-on course including concepts of real estate development patterns, urban growth, and site specific factors related to feasibility of specific developments.	
Arts & Sciences	Geosciences	GEO	6704	Advanced Transportation Geography	Review of transportation issues and analysis, focusing on modeling and planning for flows of goods and people. Provides a hands-on approach to use of GIS for such analysis.	
Arts & Sciences	Geosciences	GLY	6739	Selected Topics in Geology	Each topic is a course directed by a faculty member. All areas of geology are included.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Geosciences	GEA	6745	Asian Geography Seminar	Analysis of regional divisions and spatial variations within Asia. Examines the significance of Asia in the global context. Focus on political, economic, cultural, and historical geographies, including development, environment, religion, and gender.	201401, 201501, 201601
Arts & Sciences	Geosciences	GLY	6824	Ecohydrology	This course covers hydrological processes along the atmosphere-plant-soil continuum and the ways in which hydrological processes control ecological structure and function.	201401, 201501, 201601
Arts & Sciences	Geosciences	GLY	6828	Ground-Water Geochemistry	Chemical behavior of ground water. Includes interaction of water with aquifer materials, chemical effects of waste disposal, use of chemical tracers, and transport of hazardous chemicals. Methods of sampling and data interpretation are emphasized. Lec.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	Geosciences	GLY	6836	Numerical Modeling of Hydrogeologic Systems	An advanced graduate course in numerical modeling of hydrogeologic systems. Topics include flow and mass transport, modeling, model calibration, model assessment. Current public domain computer codes are used, including MODFLOW, MT3D, MODPATH and LICODE.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	Geosciences	EVR	6908	Environ Science, Policy And Mgmt Independent Study	The courses offered under Independent Study will provide students with a greater range of more detailed information about Environmental Science, Policy, Ethics, Economics, Law and Management.	

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Arts & Sciences	Geosciences	EVR	6921	Scholarly Presentation of Environmental Research	Discussion and practice in methods of writing, presenting, and defending cross-disciplinary environmental research. Written and oral assignments on communicating research objectives, methods, results, theory, and analysis of policy relevance.	
Arts & Sciences	Geosciences	EVR	6922	ESP Capstone Seminar	A capstone graduate course that integrates issues related to science, policy and management in making decisions. Each semester, the program selects an environmental issue to serve as a case study. Some anticipated themes include global warming, water quantity and quality, air pollution and restoration.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	EVR	6930	Research Colloquium in Environmental Science and Policy	Scholarly presentations by invited academic researchers and leading policy decision-makers.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	EVR	6934	Grad Environ Sci, Policy & Mgmt Selected Topics	Selected topics, issues and problems in Environmental Science and Policy.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	EVR	6936	Seminar in Environmental Science	A seminar course that reviews a major theme or themes in environmental science that integrates knowledge and research from various scientific disciplines.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	Geosciences	EVR	6937	Seminar in Environmental Policy	Critical assessment of environmental policy and regulatory formulation, implementation, evaluation, and revision in the context of scientific, technological, institutional, political, social and economic factors; case studies of major U.S. policies.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Geosciences	GEO	6944	Internship in Geography	The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to gain practical field experience.	
Arts & Sciences	Geosciences	GEO	6970	Geographic Research Design	This course stresses conducting geographic research within the scientific method. It includes both quantitative and qualitative research. Specific topics include sample design, data collection, oral presentations, written proposals and a thesis.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	Geosciences	GEO	7606	Seminar in Urban Environments	This seminar will explore topics in the study of urban environments such as global restructuring, race and ethnic relations, and the geopolitics of urban policy, by way of readings, discussion, and research.	201308, 201408, 201508, 201601
Arts & Sciences	Geosciences	GEO	6209C	Physical Geography Seminar	Analytic study of one or more topics from physical geography. Selected problems may include hydrology, physiography, meteorology, climatology, soils, vegetation, etc.	
Arts & Sciences	Geosciences	GLY	6285C	Analytical Techniques in Geology	Use and application of analytical methods including X-ray, atomic absorption, ICP/MS, TEM, SEM, and other geochemical techniques. Interpretation and statistical analysis of the data acquired. Lec/Lab.	

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Arts & Sciences	Geosciences	GLY	6395C	Topics in Igneous and Metamorphic Petrology	Detailed study of selected igneous and/or metamorphic rock associations. Targeted sites will vary each semester. Modern methods of geochemical and mineralogical analysis (EPMA, ICP/DCP, XRD) will be employed. May be repeated up to 12 hrs. Lec/Lab.	
Arts & Sciences	Geosciences	GLY	6475C	Principles of Applied Geophysics	Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to resource exploration, site investigation, and mineral deposits. Lec/Lab. Field trips.	
Arts & Sciences	Geosciences	GLY	6575C	Coastal Sedimentation	Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec/Lab. Field trips.	
Arts & Sciences	Geosciences	GLY	6827C	Advanced Hydrogeology	Flow systems, analytical and numerical solutions to ground-water flow problems. Emphasis on the theoretical aspects of ground-water flow systems and their interaction with the geologic framework. Lec/Lab. Field trips.	
Arts & Sciences	Government & International Affairs	INR	5012	Globalization	Examination of globalization's impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that impacts the study of the nation-state system and power. Open to majors and non-majors.	201308, 201408, 201508
Arts & Sciences	Government & International Affairs	POS	5159	Urban Policy Analysis	Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.	
Arts & Sciences	Government & International Affairs	IDS	6369	Strategic Global Negotiations	The course provides a practical policy-oriented practitioner's experience to participants who desire to enhance their skills to negotiate effectively in a globalized world dealing with real issues of conflict resolution and peace-building.	
Arts & Sciences	Government & International Affairs	INR	6690	Research Seminar in Globalization	Examination and presentation of research from multiple disciplines that address a wide-range of issues related to globalization, including those that concern governance and human development. Seminar format. Open to majors and non-majors.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	History	HIS	7289	Ph.D. Seminar in Comparative Studies	Organized around a varying theme or methodology (sustainability, globalization, identity, e.g.), this course examines how historians, sociologists and political scientists employed the methodology throughout various regions and periods.	
Arts & Sciences	Humanities & Cultural Studies	HUM	6583	Global Cinema and New Media to 1960	Offers an advanced introduction to the first 65 years of international film history. This course explores aesthetic and narrative practices in various film genres, movements, and national cinemas.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	Humanities & Cultural Studies	HUM	6584	Global Cinema and New Media since 1960	Offers an advanced introduction to international film history after 1960. This course explores aesthetic and narrative practices in various film genres, movements, and national cinemas.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Interdisciplinary Arts and Sciences	IDS	6215	Seminar in Global Sustainability	The purpose of this interdisciplinary seminar in sustainability is to broaden student's knowledge and understanding of global determinants and potential solutions to sustainability issues.	201308, 201401, 201408, 201501, 201508

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Arts & Sciences	Interdisciplinary Arts and Sciences	IDS	6946	Sustainability Internship	The Sustainability Internship allows students to develop and practice skills related to global sustainability in developed and/or developing countries.	
Arts & Sciences	Interdisciplinary Arts and Sciences	IDS	6951	Sustainability Project	This is the final project for the Master of Arts in Global Sustainability students.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508
Arts & Sciences	Mass Communications	JOU	5344	Multimedia Journalism	The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.	201401, 201501, 201601
Arts & Sciences	Mass Communications	JOU	6107	News Coverage of Public Life	Problems and methods of reporting urban affairs, including municipal government, and politics: city, county, and state. Research/analyses of current issues.	
Arts & Sciences	Mass Communications	VIC	6316	Brand Management	This course focuses on developing an understanding of brand equity in strategic communication management. It investigates how to build, measure, and manage brand equity, including management of brands over time, geographic boundaries, and market segments.	
Arts & Sciences	Mass Communications	JOU	6349	Advanced Multimedia Journalism	Students learn what it means to work in a multimedia environment and will create a journalism project across multiple media platforms, including broadcast, print and the web. They will also explore the theoretical assumptions of the field.	201308, 201408, 201508
Arts & Sciences	Mass Communications	JOU	6501	Media Management	The course provides students with a foundation in understanding the financial and economic environment of the mass media and the process of managing mass media enterprises in the new multimedia environment. It is not restricted nor repeatable for credit.	201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Mass Communications	PUR	6603	Strategic Communication Campaigns	A problem-solving approach emphasizing the environmental context of strategic communication problems, applied to strategic communication management in organizational settings. Nonmajors with prerequisites allowed. Not repeatable for credit.	201401, 201501, 201601
Arts & Sciences	Mathematics & Statistics	MAA	6406	Complex Analysis I	Linear transformations, analytic functions, conformal mapping, Cauchy's theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann mapping theorem.	201308, 201408, 201508
Arts & Sciences	Physics	PHZ	5405	Solid State Physics I	Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.	201401, 201501, 201601
Arts & Sciences	Physics	PHZ	5430	Introductory Physics of Materials	Phenomenological introduction to the structural, thermal, electrical, magnetic, mechanical, and optical properties of materials.	201308, 201408, 201508
Arts & Sciences	Physics	PHZ	6204	Atomic/Molecular Spectra	Hydrogen atom, one electron systems, centralfield and vector models, perturbations, Zeeman and Stark effect, hyperfinestructure, atomic structure calculations; diatomic spectra, rotational and vibration analysis, intensities, temperatures from spectra, isotope effects.	201308, 201408, 201508, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Arts & Sciences	Physics	PHY	6346	Electromagnetic Theory I	Electrostatics, magnetostatics, potential and boundary value problems. Maxwell's equations. First semester of sequence PHY 6346, PHY 6347.	201308, 201408, 201508
Arts & Sciences	Physics	PHY	6347	Applied Electromagnetic Theory	Second semester of sequence PHY 6346, PHY 6347. Electromagnetic waves, wave guides and resonant cavities, diffraction, relativistic-particle kinematics and dynamics, plasmas and magnetohydrodynamics.	201401, 201501, 201601
Arts & Sciences	Physics	PHZ	6426	Solid State Physics II	Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence PHZ 5405, PHZ 6426.	201308, 201408, 201508
Arts & Sciences	Physics	PHZ	6715	Biophysics I	This is part one of a two-semester introductory course in biophysics designed to apply concepts from thermodynamics, statistical mechanics and electromagnetism to describe the physical behavior of macromolecules and biological membranes.	201308, 201408, 201508
Arts & Sciences	Physics	PHY	6753	Measurement and Instrumentation	Measurement, signals and noise; analog/digital conversion; data communication; digital signal processing. LabVIEW programming, instrument control, data acquisition through RS232 and GPIB interface. Familiarity with electronic circuits recommended.	201401, 201501, 201601
Arts & Sciences	Physics	PHZ	5156C	Computational Physics I	C or Fortran programming applied to science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects: neurobiology, quantum magnetism, chaos, etc. Familiarity with programming in a compiled language assumed.	
Arts & Sciences	Physics	PHY	5720C	Electronics for Research	A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital ICs, breadboarding techniques and electronics test instrumentation. Spring Semester.	
Arts & Sciences	School of Information	LIS	5631	Health Information Sources	Introduction to printed and electronic sources of health information. Course material is intended for those interested in medical, public, or academic libraries where clients need health-related information.	
Arts & Sciences	School of Information	LIS	5802	Information Analytics	This course teaches the basics of data science, visualization, and the use of R, a programming language and software environment for statistical computing and graphics.	
Arts & Sciences	School of Information	LIS	6773	Digital Curation	Covers the management of current and archival electronic records, including the creation and implementation of electronic record-keeping systems, the appraisal, processing and preservation of electronic records.	201305, 201405, 201408, 201508, 201601
Arts & Sciences	School of Public Affairs	PAD	5044	Environment of Public Administration	Examination of the legal, political, and ethical environment in which public managers work.	
Arts & Sciences	School of Public Affairs	PAD	5605	Administrative Law and Regulation	An examination of the constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government.	201308, 201401, 201408, 201501, 201508

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Arts & Sciences	School of Public Affairs	PAD	5807	Urban and Local Government Administration	Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	School of Public Affairs	PAD	5836	Comparative Public Administration	How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	School of Public Affairs	URP	6058	Community Development Planning	Course explores the process by which human communities emerge, grow, and sometimes decline and disappear. Also provides knowledge necessary to maximize use of communities' assets and minimize damage from natural or man-made features in their environment.	201408, 201508
Arts & Sciences	School of Public Affairs	URP	6100	Planning Theory and History	The course is designed acquaint the student with major trends in the evolution of urban planning thought and practice and introduce the student to fundamental theories of relevance to the field of urban and regional planning.	201308, 201408, 201508
Arts & Sciences	School of Public Affairs	URP	6201	Quantitative Analysis in Urban & Regional Planning	Focuses on quantitative analysis techniques and their application in urban and regional planning.	
Arts & Sciences	School of Public Affairs	URP	6232	Research Methods for Urban and Research Planning	The course is designed to introduce students to strategies for designing research and the appropriate methods for collecting urban and regional planning data; familiarize students with social research and evaluation methods used in planning.	201308, 201401, 201408, 201501, 201508
Arts & Sciences	School of Public Affairs	PAD	6338	Urban Land Use and Policy Administration	Focuses on the political, economic, and legal environment of urban land development. Examines public policies affecting the spatial distribution of urban land activities, overt and covert rationales of such policies; zoning; subdivision regulations; building codes, and other urban land use control measures.	201501, 201601
Arts & Sciences	School of Public Affairs	PAD	6355	Urban Growth Management	Examines the political economy of controlling the growth and development of human settlements, regulatory and non-regulatory techniques of growth management, and the evolution of growth management practices in the U.S.	201401, 201501, 201601
Arts & Sciences	School of Public Affairs	URP	6406	Urban Environmental Policy	The purpose of this course is to examine issues related to environmental planning and policy within the context of the urban/humanly-built environment and its relation to surrounding natural environments.	
Arts & Sciences	School of Public Affairs	URP	6422	Environmental & Planning Issues in Coastal Communities	The content of this course will familiarize students with issues in environmental and urban planning unique to coastal communities, and explore the connections – current and potential – between the oceans and coastal urban areas.	
Arts & Sciences	School of Public Affairs	URP	6444	Global & Community Food Systems	Provides a general introduction to the food system, how it relates to planning and public policy, and an overview of the tools, strategies, and approaches public policymakers can utilize to address food system problems and challenges.	

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Arts & Sciences	School of Public Affairs	URP	6549	Urban & Metropolitan Economic Development Strategies	The course is designed to provide the student an opportunity for community service and 'real world' learning. Community service learning will be employed as a pedagogical strategy to prepare students for 'real-world' issues in local economic development.	201408, 201508
Arts & Sciences	School of Public Affairs	PAD	6717	GIS Applications for Urban Management	Provides a basic introduction to the use of Geographic Information Systems (GIS) for urban decision makers. No prior knowledge of GIS is assumed.	
Arts & Sciences	School of Public Affairs	URP	6910	Supervised Research	This course will allow graduate students to earn credits while working on an independent research project that is focused in Urban and Regional Planning.	
Arts & Sciences	School of Public Affairs	URP	6930	Special Topics in Urban and Regional Planning	Topical issues in the study of Urban and Regional Planning. Content will vary each semester. It is repeatable for credit. There are no limits on the number of times a student can take courses listed under this title.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Arts & Sciences	School of Public Affairs	URP	6940	Internship in Urban and Regional Planning	Students will gain practical experience in planning, working on projects with local planning agencies and firms. Course is restricted to URP masters students, and can be repeated for up to 6 credits.	
Arts & Sciences	School of Public Affairs	URP	6971	Thesis	This course will allow graduate students to earn credits while working on a thesis that is focused in Urban and Regional Planning.	
Arts & Sciences	Sociology	SYP	6515	Sociology of Deviance	Develops knowledge of traditional theories of deviance as well as critiques them. Through development of alternative perspectives, challenges constructions of deviance and the mechanisms of power.	
Arts & Sciences	Sociology	SYD	6605	City and Community	Provides training in the field of urban and community sociology. Focuses on the field's early theoretical foundations, "classic" research, and contemporary debates. Concentrates on the U.S., although some cross-cultural comparisons will be offered.	201401, 201501, 201508, 201601
Arts & Sciences	Sociology	SYO	7435	Sociology of Disability in Urban Society	This course critically evaluates current controversies over the utility of a variety of theoretical perspectives and research methods in understanding the lived experience of disability in 21st century urban society.	201401, 201501, 201601
Arts & Sciences	Sociology	SYA	7939	Selected Topics for Ph.D. Students	In this course, doctoral students will examine theoretical, methodological and/or substantive scholarship in a variety of areas related to identity, community and sustainability in global context.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Arts & Sciences	Women's and Gender Studies	WST	6562	Body Politics	An in-depth feminist exploration of how the body is produced, inscribed, replicated, and often disciplined as a result of various powers at work.	201308, 201408, 201508
Behavioral & Community Sciences	Aging Studies	GEY	6461	Retirement and Long Term Care Housing for Elderly	This course will focus on population trends, housing and environment theory, need and availability of affordable housing with services, adapting homes for elders, and a number of age-related housing solutions. Not restricted to majors; not repeatable.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Behavioral & Community Sciences	Child and Family Studies	MHS	6068	Community-Based Beh Health Intervn for Cult Diverse Youth	This course focuses on behavioral health issues and interventions for culturally diverse youth. Topics include youth and family strengths and needs, research and intervention approaches, and relevant policies at global, national, and local levels.	201401, 201405, 201501, 201505
Behavioral & Community Sciences	Child and Family Studies	MHS	6201	Applied Behavior Analysis in Complex Community Environments	Prepares students to recognize factors that may affect the application of behavior analysis principles within and across community settings and to design intervention plans that fit given characteristics of the social and physical context of these home, school and other community settings.	201308, 201401, 201408, 201501, 201505, 201508, 201601
Behavioral & Community Sciences	Child and Family Studies	MHS	6437	Family Perspectives on Behavioral Health Disparities	Examines behavioral health disparities from a family systems perspective, with consideration of how they are influenced by historical context, generations, immigration, social and physical environmental factors, discrimination, and group heterogeneity.	201508, 201601
Behavioral & Community Sciences	Child and Family Studies	MHS	6706	Child and Adolescent Behavioral Health Policy	This course focuses on critical policy issues affecting child and adolescent behavioral health services in the U.S. Historical, legislative and policy making issues will be discussed, and U.S. policies will be examined within an inclusive global context.	201408, 201508
Behavioral & Community Sciences	Child and Family Studies	MHS	6938	Applied Behavior Analysis in Community Settings	Addresses selected topics in behavior analysis applications in complex community environments through lecture, class discussion, and supervised special projects.	201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Behavioral & Community Sciences	Child and Family Studies	MHS	6940	Practicum in Behavior Analysis in Community Settings	Supervised field work in the application of behavior analysis to children, adults and/or their families in complex community environments, including home, school, employment and neighborhood settings.	
Behavioral & Community Sciences	Communication Sciences and Disorders	SPA	5132	Audiology Instrumentation	Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.	201401, 201501, 201601
Behavioral & Community Sciences	Communication Sciences and Disorders	SPA	5303	Auditory Anatomy and Physiology	Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.	201308, 201408, 201508
Behavioral & Community Sciences	Communication Sciences and Disorders	SPA	6314	Electrophysiology	This course focuses on the auditory brainstem response (ABR) as an essential diagnostic and screening tool. The course follows a combined lecture/laboratory mode with weekly class meetings and weekly laboratory exercise.	201308, 201408, 201508
Behavioral & Community Sciences	Communication Sciences and Disorders	SPA	6316	Vestibular Evaluation and Treatment	Principles and clinical practices of assessing the peripheral and central components of the human vestibular system using electrical recordings of induced and spontaneous nystagmus.	201401, 201501, 201601
Behavioral & Community Sciences	Communication Sciences and Disorders	SPA	6354	Hearing Conservation	An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises.	201305, 201405, 201505

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Behavioral & Community Sciences	Communication Sciences and Disorders	SPA	7332	Advanced Electrophysiology	The purpose of this course is to provide students with the fundamentals and advanced clinical practice of human electrophysiology as it applies to audiology and hearing science. The course topics will include a review of the neural generators.	201401, 201501, 201601
Behavioral & Community Sciences	Criminology	CCJ	6624	Seminar in Violence	This course utilizes psychological, sociological, and biological perspectives to help students to understand different types of violent offenders and various intervention strategies.	201601
Behavioral & Community Sciences	Criminology	CJE	6627	Digital Evidence Recognition and Collection	Instructs participants in the basics of recognizing potential sources of electronic evidence, preparing them to respond to an electronic crime scene, and to collect items of evidentiary value to be used in court proceedings.	
Behavioral & Community Sciences	Criminology	CCJ	6638	Seminar in Nature and Causes of Crime	Examination of some of the issues green criminologists study and investigate why it is important to study these issues from a criminological perspective. Topics include crime against animals, forests, and water.	201601
Behavioral & Community Sciences	Criminology	CJE	6688	Cybercrime and Criminal Justice	Introduction to the topic of criminality in online environments. Topics include hacking, online identity theft, fraud, trade in illicit substances/items, sexual crimes online, and responses to cybercriminality.	201501, 201508
Behavioral & Community Sciences	Rehabilitation & Mental Health Counseling	RCS	5450	Fundamentals of Substance Abuse Counseling	An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Behavioral & Community Sciences	Social Work	SOW	6375	Advanced Social Work Macro Policy	Studies facets of organizational environment in which clinical practice takes place; develops skills in various macro practice functions of the agency, such as supervision, program operations, and interagency relations.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Behavioral & Community Sciences	Social Work	SOW	6539	Field Instruction IV	The last field seminar course is designed to offer a structured environment in which to integrate academic course work with the field placement. Students learn advanced clinical skills in preparation for professional clinical social work practice.	
Business	Accounting	ACG	6346	Contemporary Issues in Managerial Accounting	The evolution of cost accounting systems, and the impact of new managerial accounting philosophies in the modern international manufacturing environment, including a discussion of current issues and controversies involving managerial accounting.	201305
Business	Accounting	ACG	6636	Contemporary Issues In Auditing	This course explores contemporary auditing issues and advanced topics concerning the changing role of the audit assurance function and changing audit processes. Topics include audit reporting, auditing in advanced computerized environments, audit judgment, quality control, and regulation of the profession.	201308, 201408, 201508

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Business	Business Administration	GEB	7982	Research and Writing Skills for Doctoral Students	A research course for executive students on searching and citing research literature, preparing submissions for publication and assessing the suitability of publication outlets. The course emphasizes the effective use of electronic library resources.	201601
Business	Finance	FIN	6326	Bank Management	Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment.	
Business	Information Systems and Decision Sciences	MAN	6107	Leading Sustainable Enterprise: Goals and Processes	Examines the perspective required of the manager/leader/facilitator in light of personal, organizational, and societal needs judged by standards of effectiveness and ethicalness.	
Business	Information Systems and Decision Sciences	MAN	6149	Leadership and Teams	Exploration, analysis and applications of Leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.	
Business	Information Systems and Decision Sciences	ISM	6156	Enterprise Resource Planning & Business Process Management	This course introduces students to business processes management and enterprise resource planning systems, and their use and implementation in key functional areas of today's global businesses.	201305, 201308, 201405, 201408, 201505, 201508, 201601
Business	Information Systems and Decision Sciences	MAN	6204	Organization Design and Structure	Systematic study of architecture, design and management approaches that influence the effectiveness of public and private organizations, including theory, environment, technology, culture, behavior control and work design.	
Business	Information Systems and Decision Sciences	ISM	6225	Distributed Information Systems	This course will focus on telecommunications, networks, and distributed applications. All forms of communication will be covered. Students will gain exposure to network management systems, local area networks (LANs), and global networks, such as Internet.	201308, 201401, 201408, 201501, 201508, 201601
Business	Information Systems and Decision Sciences	MAN	6256	Politics and Control in Organizations	Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.	201401, 201501, 201601
Business	Information Systems and Decision Sciences	ISM	6316	Project Management	The objective of this course is to become familiar with fundamental issues for managing project management and to develop an understanding of the overall processes of dealing with competing demands in information technology environments.	201305, 201308, 201401, 201405, 201408, 201505, 201508, 201601
Business	Information Systems and Decision Sciences	ISM	6442	International Aspects of Information Science	Role of managers and information technology professionals in global business organizations and in deploying information systems to enable global operations.	201305, 201408, 201508
Business	Information Systems and Decision Sciences	ISM	6485	Electronic Commerce	This course is geared to a broad audience and will introduce information technology enablers that facilitate electronic commerce. The lectures, discussions and class presentations will also serve to understand the business landscape and business models.	

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Business	Information Systems and Decision Sciences	MAN	6518	Sustainable Production Systems	Examines production processes dedicated to sustainable organizational performance through elimination of waste and reduction in resources consumed.	
Business	Information Systems and Decision Sciences	MAN	6601	International Management	A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.	
Business	Information Systems and Decision Sciences	MAN	6746	Designing Sustainable Enterprise	Examines an analytical framework for organizations to build more sustainable economies, societies, and natural environments.	201401
Business	Information Systems and Decision Sciences	MAN	6748	Assessing Sustainable Performance of Organizations	The course helps students to conceptualize a sustainable organization and use that as a benchmark to analyze the performance of organizations aspiring for long-term survival and growth.	
Business	Marketing	SPB	6116	Sport and Entertainment Finance	This course provides the opportunity to apply financial concepts, tools, and techniques to the global sport and entertainment industry.	201308, 201408, 201508
Business	Marketing	ENT	6126	Strategies in Technology Entrepreneurship	Students will learn that entrepreneurial opportunities are both identified in the existing socioeconomic environment and created through innovation. Students will learn theory based models and their application through case studies and a final project.	201308, 201401, 201408, 201501, 201508, 201601
Business	Marketing	GEB	6445	Social, Ethical, Legal Systems	A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Business	Marketing	GEB	6457	Ethics, Law and Sustainable Business Practices	Examines ethical and legal responsibilities of business for triple bottom line performance of prosperity, social justice, and concern for the natural environment.	201308, 201401, 201408, 201501, 201508, 201601
Business	Marketing	SPB	6605	Sport and Social Issues	This course examines the social environment of sport and discusses the various diversity theories, focusing on the application of these theories to organizations in the sport business and entertainment management industry.	201308, 201501, 201601
Business	Marketing	SPB	6735	Global Environment of Sport	This course examines the global economic, social, political, technological, and legal environments of sport, the marketing factors driving globalization, and the challenges of intercultural management in sport organizations.	201308, 201408, 201508
Business	Marketing	SPB	6818	Economics of Sport	This course applies the principles of macro and micro economics to global sport organizations, including topics such as industrial organization, public financing, and labor economics.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Business	Marketing	MAR	7931	Seminar on Selected Marketing Topics	Intensive study of the theoretical, conceptual, and methodological issues and problems which impact managerial applications in selected topic areas, such as marketing channels, distribution/logistics, environmental or (social) nonprofit marketing, consumer behavior, advertising/media research, or international marketing.	201308, 201401, 201408, 201501, 201508, 201601
College of Pharmacy	Graduate School	PHA	6336	Tissue Engineering and Regenerative Medicine	How materials interact with cells through their micro-and nanostructure, mechanical properties degradation characteristics, surface chemistry and biochemistry. Principles of tissue engineering, design strategies for practical applications for tissue repair.	201505, 201508, 201601
College of Pharmacy	Pharmacy	PHA	6243	Medical Informatics and Technology	The focus of this course is to emphasize the roles and responsibilities of the profession and individual pharmacists in the implementation and utilization of electronic health records, medical information technology, institutional and community software, and healthcare system database management.	
College of Pharmacy	Pharmacy	HSC	6261	Teaching Essentials	Focuses on the fundamental concepts of teaching and learning within a Health Professions Education context. It seeks to provide students research-based models of teaching in an environment designed to allow practice, feedback, and achievement.	
College of Pharmacy	Pharmacy	PHA	6451	Clinical Biochemistry	Course focus will be on the structure, chemistry and function of macromolecules and their building blocks, i.e. amino acids, carbohydrates, nucleotides and fatty acids. Major metabolic and catabolic pathways will be discussed in relation to drug action. Enzyme kinetics and regulation, and bioenergetics will be presented.	
College of Pharmacy	Pharmacy	PHA	6577	Biochemical and Molecular Principles of Drug Action	Initial course discussions will focus on the principles of pharmacology, and their application to anatomical and physiologic function. Special emphasis will be placed on medication receptor recognition, drug structure, introductory pharmacology, specific organ system, mechanisms of signaling response, variations of medication action at receptor sites, adverse effects of various medications, absorption, distribution, metabolism, elimination, and physical chemical properties.	
College of Pharmacy	Pharmacy	PHA	6755	Medical Microbiology and Immunology	This course will provide a comprehensive study of the field of medical microbiology and the immune system. Microbiology discussions will include a review of infectious microbes and the clinical consequences of infection. Immunology discussions will focus on the structure and function of the individual components of the immune system, and manipulation of the immune system in medicine.	
College of Pharmacy	Pharmacy	PHA	6898	Foundations of Public Health	This course provides the student with an introduction to public health. It covers the basic definition of public health, the analytical methods used in public health, the biomedical basis of public health, the social and behavioral factors related to health interactions, and environmental and medical care issues. Students will also learn about the relationship between public health and pharmacy, and the role of the pharmacist as it relates to Healthy People 2020 goals and objectives.	

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College of Pharmacy	Pharmacy	PHA	6916	Directed Independent Research	Study abroad will be conducted in collaboration with RIWATCH (Research Institute for World Ancient Traditions, Cultures, and Heritage), Roing Arunachal Pradesh, India, an institute which has an agreement with USF World for student and faculty training and exchange. RIWATCH has the following centers: 1. Center for Social Work Research, 2. Center for Public Health Research, and 3. Center for Community Research. Students will create a project within one of these centers to submit before the trip.	
College of Pharmacy	Pharmacy	PHA	6114C	Drug Delivery Systems I	Fundamental biological and physio-chemical principles important for the formulation, preparation, stability, and performance of pharmaceutical dosage forms (compounding) and various advanced drug delivery systems. A weekly laboratory session of three hours is included to provide students the opportunity to apply learned principles.	
College of Pharmacy	Pharmacy	PHA	6115C	Drug Delivery Systems II	Fundamental biological and physiochemical principles important for the formulation, preparation, stability, and performance of pharmaceutical dosage forms (compounding). A weekly laboratory session is included to provide students the opportunity to apply learned principles.	
College of Pharmacy	Pharmacy	PHA	6730C	Drugs of Abuse, Addiction, and Law Enforcement	Course will consist of one to two hours of didactic lecture covering the medical chemistry and pharmacology for the drug and for certain topics, one hour of documentary on the drug in society. Students will also be required to write a book report on a book about drug addition taken from a list that will be provided of approved books. There will be two exams worth 40% each and the book report will be worth the remaining 20%.	
College of Pharmacy	Pharmacy	PHA	6782C	Pharmacotherapeutics I	Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology, and pharmacy practice faculty. The over-arching goal of the sequence is to review and discuss the applied principles of pharmacotherapy/patient management following an organ system process to include cardiovascular, pulmonary, endocrine, and gastrointestinal systems.	
College of Pharmacy	Pharmacy	PHA	6783C	Pharmacotherapeutics II	Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology and pharmacy practice faculty. The overarching goal of the sequence is to review and discuss the applied principles of pharmacotherapy/patient management following an organ system process. This is the second of four courses in the integrated course sequence. Areas to be covered include psychiatry, neurology, men's and women's health topics, and genitourinary system.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
College of Pharmacy	Pharmacy	PHA	6784C	Pharmacotherapeutics III	Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology and pharmacy practice faculty. The overarching goal of this semester is to review and discuss the applied principles of pharmacotherapy and patient management following an organ system process to include infectious diseases, hematology, oncology, and renal disease.	
College of Pharmacy	Pharmacy	PHA	6787C	Pharmacotherapeutics IV	Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology and pharmacy practice faculty. The overarching goal of the sequence is to review and discuss the applied principles of pharmacotherapy/patient management following an organ system process to include critical care, nutrition, pediatrics, solid organ transplant, and drug induced diseases.	
College of Pharmacy	Pharmacy	PHA	6804C	Pharmaceutical Calculations	Accurate pharmacy calculations enhance patient care in all areas of pharmacy practice. This course serves as an introduction to the clinical role calculations play in patient safety. Students will learn the direct application of their previous math and chemistry skills to the human body. Calculations will encompass different approaches to measurement including the metric, avoirdupois, and traditional apothecary systems. Course topics will include specific gravity/volume, percentage and ratio.	
College of Pharmacy	Pharmacy	PHA	6871C	Pharmaceutical Skills II	The focus of this semester will be a continued discussion of pharmaceutical care techniques, with an emphasis on special populations, motivational interviewing, career options, and the application of public health principles. In addition, students will receive instruction on physical assessment techniques to include blood pressure measurement, medical device training, and techniques specific to medication administration such as eye/ear drops, nasal sprays, and inhalers.	
Education	Educational and Psychological Studies	MHS	6070	Study of Mental Disorders for Counselors	The purposes of this course are to familiarize the students with the study of mental disorders, learn the most current system of classification of mental disorders, and discuss evidence-based biological and sociocultural treatments for mental disorders.	201308, 201408, 201508
Education	Educational and Psychological Studies	EDF	6166	Consulting Skills for Staff Development	Knowledge and skill training for consulting with organizational clients to solve educational problems and design learning environments or programs.	201401, 201508
Education	Educational and Psychological Studies	SPS	6197	Psychoeducational Diagnosis and Prescription I	Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.	201308, 201408, 201508

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Education	Educational and Psychological Studies	SPS	6198	Psychoeducational Diagnosis and Prescription II	Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.	201401, 201501, 201601
Education	Educational and Psychological Studies	CGS	6210	Computer Hardware Systems for Education	This course focuses on the development of an understanding of microcomputer hardware that allows individuals to teach as well as make decisions concerning purchase, repair, and appropriate use. Topics include: basic concepts of digital electronics, the operation of a digital computer system, major categories of computer peripherals, historical development of electronic computers, and selection and maintenance of computers in an educational setting.	201305, 201308, 201401, 201501, 201601
Education	Educational and Psychological Studies	EDF	6213	Biological Bases for Learning Behavior	Human biological development and its influence upon learning and behavior.	201305, 201405, 201501, 201505, 201601
Education	Educational and Psychological Studies	SDS	6624	Ecology of Campus Life	Provides students with an understanding of the changing demographics, environmental and developmental issues facing college students.	201305, 201308, 201405, 201408, 201505, 201508
Education	Educational and Psychological Studies	EDF	7227	Topics in Behavior Analysis and Automated Instruction	Seminar in experimental analysis of functional relationships between behavior and relevant environmental variables. Interpretation of complex human behavior and formulation of procedures which expedite instruction in educational procedures for computer delivery.	
Education	Leadership, Counseling, Adult, Career, and Higher Education	ADE	6161	Curriculum Construction in Adult Education	Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. Concentrates on basic principles affecting the planning of Adult Education activities, including an overview of the human forces that both impinge on and motivate human behavior in an adult learning environment.	201308, 201408, 201508
Education	Leadership, Counseling, Adult, Career, and Higher Education	EDA	6195	Policy Development	Contemporary research on diffusion of innovations, political power in policy decision making. Role of establishing educational policies.	
Education	Leadership, Counseling, Adult, Career, and Higher Education	ECW	7195	Comparative Study of Career Workforce Education Systems	This online course provides an overview of global perspectives and models for career and workforce education with an emphasis on comparative analyses of national, state, and international systems.	
Education	Teaching and Learning	EPD	5051	Advanced Theories in Motor and Physical Disabilities	Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Education	Teaching and Learning	SSE	5332	Methods & Strategies in Social Science Education	Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.	201308, 201401, 201408, 201501, 201508, 201601
Education	Teaching and Learning	EEX	5752	Working With Families: A Pluralistic Perspective	The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today.	201305, 201308, 201401, 201405, 201408, 201501, 201601
Education	Teaching and Learning	LAE	5862	Classroom Communication in English Education	Identifies characteristics of classroom communication environment; offers insights, info, instructional strategies designed to help you become effective classroom communication managers. Emphasis on role of media & non-print texts in students' lives.	
Education	Teaching and Learning	EEX	6051	Creating Positive Learning Environments for Students with Disabilities	This course presents an overview of assessment, behavior management, and instructional planning for students with disabilities. It also incorporates content about the historical and legal foundations of special education and theories and research that focus on defining, describing and intervening with students who have learning disabilities, behavior disorders, mild-moderate mental retardation, mild to moderate developmental disabilities, and physical disabilities.	201305, 201405, 201408, 201508
Education	Teaching and Learning	EMR	6052	Advanced Theories and Practices in Mental Retardation	In-depth study of the complex social and biological aspects of mental retardation with particular reference to effects on education.	201305, 201308, 201401, 201408, 201501, 201601
Education	Teaching and Learning	PET	6098	Topics in Strength and Conditioning	Covers selected topics in strength and conditioning. Some of the topics to be covered include: program design, periodization, core stabilization training, biochemical monitoring, overtraining, and strength training.	201401, 201501, 201601
Education	Teaching and Learning	SCE	6115	Trends in Science Instruction	Topics in the biological and physical sciences appropriate for teaching in elementary school programs. Analysis of modern curriculum materials used in presenting science as a process of inquiry.	
Education	Teaching and Learning	FLE	6167	Cross-Cultural Issues in Teaching ESOL	Designed for K-12 & adult educ environment to help participants develop awareness & understanding of the major cultures represented by the different language groups within the State of Florida (teach cultural awareness & cross-cultural understanding).	201308, 201408, 201508
Education	Teaching and Learning	EEX	6222	Advanced Psychoeducational Assessment of Exceptional Students	Theory and methodology associated with norm-referenced, criterion-referenced, curriculum-based, ecological, and psychoneurological assessment procedures for exceptional students.	201308, 201401, 201408, 201501, 201508, 201601
Education	Teaching and Learning	EEX	6234	Identification and Assessment of Individuals with Low Incidence Intellectual Disabilities and ASD	Critical analysis of the processes in place to identify students with severe/profound intellectual disabilities and/or autism spectrum disorder (ASD). Explores curriculum instruction and assessment in a least restrictive environment.	201401, 201501, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Education	Teaching and Learning	EEX	6248	Instructional Approaches for Exceptional Populations	In-depth study of instructional strategies that are effective when teaching students with emotional disturbance, mental retardation, and learning disabilities. Content includes techniques for curriculum adaptation, IEP development; direct, data-based and metacognitive strategy instruction; and micro-computer applications.	201401, 201501, 201601
Education	Teaching and Learning	PET	6367	Sports Nutrition and Exercise Metabolism	This course covers selected topics regarding exercise metabolism and sports nutrition. Some of the topics to be covered include: bioenergetics; protein, fat and carbohydrate metabolism during exercise; sports supplements designed to improve strength.	201401, 201501, 201601
Education	Teaching and Learning	TSL	6380	Instruct Methods & Strategies For Teaching ESOL	Effective use of ESOL methods and strategies. Conceptual focus of this course is based on the teacher as self-directed, reflective practitioner and problem solver who is able to facilitate learning and change within diverse populations and environments.	
Education	Teaching and Learning	TSL	6390	Instruct Methods and Strategies for Teaching ESOL	Effective use of ESOL methods and strategies. Conceptual focus of this course is based on the teacher as self-directed, reflective practitioner and problem solver who is able to facilitate learning and change within diverse populations and environments.	201401, 201501, 201601
Education	Teaching and Learning	SCE	6416	Teaching Secondary School Biology	Effective use and production of instructional materials in the biological sciences. Interrelation of philosophy, materials, and classroom practices.	201308, 201408, 201508
Education	Teaching and Learning	SCE	6444	Community Resources for Environmental Education	Identify, access, and acquire community resources (media; business/industry); prof. natural science, engineering and social science societies; government and non-government agencies; civic groups, universities) to incorporate into learning opportunities for diverse audiences at all school levels.	201308, 201401, 201501, 201601
Education	Teaching and Learning	EDE	6506	Managing and Differentiating the Instructional Environment in Elementary Schools	Examines the legal issues affecting classroom/school management, school safety and professional ethics. Explores research and knowledge of best practices and a variety of teaching and management strategies for a diverse elementary classroom setting.	201305, 201308, 201405, 201408, 201505, 201508
Education	Teaching and Learning	SCE	6646	Environmental Site Explorations	On-site experiences at informal science institutions (ISI) provide first hand opportunity to construct a holistic view of informal education industry, its organization, career paths, management concerns, niches, nature and relationships among programs.	201401
Education	Teaching and Learning	SCE	6744	Survey Update of Environmental Research Management Policies	Current & future scientific research topics of long term importance are explored providing an integrated update in science. Complex connections among the various natural, math, & social science; agriculture; psychology; & engineering are emphasized.	201308
Education	Teaching and Learning	EDG	7069	Sustainable Innovation in Education	Research and theory on sustainable innovation, including life-cycles and evolution. Includes development of case study of existing or defunct innovation's origins, development, effectiveness and current status. Open to doctoral students in COEDU.	

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Education	Teaching and Learning	EDE	7206	Critical Analysis of Curriculum in Elementary Schools	The purpose of this course is to critically analyze curriculum in the elementary schools from its historical foundations through the current educational climate. This will enable educators to make informed decisions on curriculum issues.	201305, 201405, 201505
Education	Teaching and Learning	EDG	7207	Transforming the Curriculum	Theory and research in curriculum development, including historical perspectives on curriculum movements, comparative global curriculum issues, and curriculum theories and models in use. Special attention given to innovations that succeed or fail.	
Education	Teaching and Learning	EDG	7695	Problems of Practice in Education	Theory and research in curriculum development, including historical perspectives on curriculum movements, comparative global curriculum issues, and curriculum theories and models in use. Special attention given to innovations that succeed or fail.	
Education	Teaching and Learning	EEX	7744	Curriculum and Instructional Issues in Urban Special Education	The purpose of this course is to review and critically examine the theoretical and research literature on the interactions of race, culture, class, and disability on the schooling experiences of urban (ethnic minority and impoverished) children and their families. The course also takes into account that ethnic minority and poor children may or may not reside in urban areas and as a result of school and community desegregation movements, those learners may also attend suburban and rural schools, in addition to urban schools. The course will provide varied formats for graduate students to identify and address critical issues and trends in urban special education and related services areas that impact outcomes for minority learners across social classes and impoverished learners from majority cultural backgrounds.	201401, 201408, 201601
Education	Teaching and Learning	EEX	7797	Language and Learning Variability in Urban Schools	This seminar explores the opportunities and challenges facing urban schools as cultural identity construction sites by focusing on the experiences of students and their families as well as language, power and politics in education, and social justice.	
Education	Teaching and Learning	EEX	7815	Research Seminar	This seminar, taken each semester of the first and second years of the doctoral program, will contribute to the development of the skills and values that lead to the creation of new knowledge and its application to the field of special education in order to improve outcomes for students who have disabilities and their families. Issues in urban schools will be emphasized.	201305, 201401, 201405, 201408, 201501, 201508, 201601
Education	Teaching and Learning	SSE	7945	Applied Research in Social Science Education	This course provides doctoral students in social science education with the opportunity to teach post-secondary courses, engage in sustained research, pursue external funding, and participate in professional activities.	201308, 201401, 201501, 201508, 201601
Engineering	Chemical & Biomedical Engineering	BME	5320	Theory and Design of Bioprocesses	Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.	201308, 201408, 201508

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Engineering	Chemical & Biomedical Engineering	ECH	5320	Chemical Process Engineering I	The course presents the principles of mass balances, classical thermodynamics, phase equilibria, energy balances, and psychrometrics. The student will learn by doing many case studies. Computer software will be used to obtain solutions to many problems.	
Engineering	Chemical & Biomedical Engineering	ECH	5321	Chemical Process Engineering II	Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer. Not available for chemical engineering students.	
Engineering	Chemical & Biomedical Engineering	ECH	5322	Chemical Process Engineering III	Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.	
Engineering	Chemical & Biomedical Engineering	ECH	5327	Chemical Process Control	Basic concepts of feedback control, process dynamics, process controllers (PID) including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.	
Engineering	Chemical & Biomedical Engineering	ECH	5740	Theory and Design of Bioprocesses	Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.	
Engineering	Chemical & Biomedical Engineering	ECH	5785	Sustaining the Earth: An Engineering Approach	An approach of global perspective on ecological principles revealing how all the world's life is connected and sustained within the biosphere and how engineering provides the tools to design solutions engaging materials science & environmental ethics.	201401, 201501, 201601
Engineering	Chemical & Biomedical Engineering	ECH	5786	Green Engineering	Synthesis and design of green chemical, biological and energy conversion processes and products. Environmental impact analysis; green chemistry and materials; life cycle analysis; industrial ecology; systematic methods and real-life examples.	
Engineering	Chemical & Biomedical Engineering	ECH	5945	Chemical Engineering Industrial Internship	Individual study as practical engineering work at an industrial facility or laboratory under the supervision of a faculty member interacting with the sponsoring industrial facility or laboratory.	
Engineering	Chemical & Biomedical Engineering	ECH	6107	Molecular Thermodynamics	Introduction of thermodynamics from a molecular perspective. The focus will be on applications to chemical engineering systems and processes.	
Engineering	Chemical & Biomedical Engineering	BME	6108	Biomaterials II Biocompatibility	Biocompatibility issues of biomaterials, including inflammation, wound healing, foreign body response, toxicity, blood coagulation, tumorigenesis, infection, and related issues including testing. Degradation of materials in the biological environment.	
Engineering	Chemical & Biomedical Engineering	ECH	6412	Processes Analysis and Modeling	Computer-controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes.	201308, 201408, 201508
Engineering	Chemical & Biomedical Engineering	ECH	6417	Bioseparations	Design and analysis of bioseparation processes, including crystallization, membrane separations, chromatography, liquid-liquid extraction, electrophoresis, and emerging technologies. Open to non-majors with CI.	

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Engineering	Chemical & Biomedical Engineering	BME	6420	Human Sensory Processes	Biological and engineering aspects of the human sensory system (vision, hearing, taste, smell, touch, pain, etc.), including normal and impaired performance, engineering models, and prosthetic device design considerations.	201401, 201501
Engineering	Chemical & Biomedical Engineering	ECH	6506	Chemical Engineering Kinetics	Fundamental aspects of chemical reactions, including collision theory, transition rate theory, unimolecular rate theory, homogeneous gas and liquid phase kinetics, heterogeneous kinetics, and mass-transfer limited kinetics.	
Engineering	Chemical & Biomedical Engineering	ECH	6515	Reacting Systems	Economic factors in the design of chemical reactors. Simulation of complex reacting systems.	201401, 201501, 201601
Engineering	Chemical & Biomedical Engineering	BME	6634	Biotransport Phenomena	Analysis and applications of biofluids, including non-newtonian and particulate systems, bioheat transfer, including energy balances, and biomass transport, including mass balances and membrane processes. Open to non-majors with CI.	201308, 201408, 201508
Engineering	Chemical & Biomedical Engineering	ECH	6840	Mathematical Methods for Chemical Engineering	Mathematical modeling of chemical engineering systems. Numerical and analytical solution methods for algebraic equations, ordinary differential equations, coupled differential and algebraic equations and partial differential equations.	201308, 201408, 201508
Engineering	Chemical & Biomedical Engineering	ECH	5747C	Selected Topics in Chemical Engineering Biotechnology	Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.	
Engineering	Civil and Environmental Engineering	ENV	5103	Air Pollution Control	Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.	
Engineering	Civil and Environmental Engineering	TTE	5501	Transportation Planning and Economics	Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.	201308, 201408, 201508
Engineering	Civil and Environmental Engineering	ENV	6002	Physical and Chemical Principles in Environmental Engineering	Investigates how chemical properties, physical processes, and environmental characteristics all influence the fate and transport of chemicals in natural and engineered systems. Includes theory, practical examples, and laboratory experiments.	201308, 201408, 201508
Engineering	Civil and Environmental Engineering	ENV	6105	Air Pollution Fundamentals	A graduate level survey of air pollution fundamentals, including physics/chemistry of air pollution, sources and emissions estimation, Gaussian dispersion models, exposures and effects, measurement/monitoring, and management/control.	201308, 201408, 201508
Engineering	Civil and Environmental Engineering	EES	6107	Biological Principles of Environmental Engineering	This course improves the student's knowledge and problem solving skills with respect to the Biological Principles used by Environmental Engineers to design biological processes. Students will learn about microbial physiology and metabolism.	201308, 201408, 201508

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Engineering	Civil and Environmental Engineering	CWR	6239	Waves and Beach Protection	A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	CWR	6305	Urban Hydrology	A study of the quantity and quality problems and solution techniques associated with urban runoff.	201308, 201408, 201508
Engineering	Civil and Environmental Engineering	ENV	6337	Environmental Site Assessment	All of the fundamental elements of Environmental Site Assessments, including a review of pertinent laws and regulations, the process of interviews, file reviews, and the site reconnaissance, through the use of procedures based on the Scientific Method.	
Engineering	Civil and Environmental Engineering	CEG	6415	Seepage and Subsurface Drainage	Design of underdrains, wells, soil filters, fabric filters, and dewatering systems with special emphasis on case studies.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	ENV	6438	Physical & Chemical Processes for Treatment of Drinking Water	Theory, analysis, and design of physical and chemical processes typically used for treatment of U.S. public water supply.	201601
Engineering	Civil and Environmental Engineering	ENV	6510	Sustainable Development Engineering	Study of the application of appropriate and sustainable engineering solutions and technology to control environmental pollutants found in a developing world setting and smaller communities in North America.	201308, 201401, 201408, 201501, 201508
Engineering	Civil and Environmental Engineering	ENV	6518	Environmental Field Sampling	This course is designed to provide students with an interest in the field of environmental science/engineering, with the highest level of practical, hands-on environmental field training to help them advance their careers.	
Engineering	Civil and Environmental Engineering	ENV	6519	Physical and Chemical Processes for Groundwater Remediation	Theory and design of processes used in advanced water and wastewater treatment, including membrane processes, absorption, electro dialysis, ozonation, irradiation.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	CWR	6533	Water Quality Modeling	This course will develop the fundamental principals and concepts of water quality modeling and apply water quality models in a variety of contexts. The mathematical representations of environmental transport and transformation processes will be elucidated. Models of different complexity will be applied to a variety of environmental contexts.	
Engineering	Civil and Environmental Engineering	CWR	6538	Advanced Hydrologic Models	To present the theoretical and applied concepts of advanced hydrologic modeling and especially integrated surface water/ground water modeling and to examine various numerical hydrologic models used in engineering practice.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	ENV	6539	Sludge Treatment & Disposal	Examines the physical, chemical, and biological unit operations and processes utilized in treating and disposing of sludges produced at water and wastewater treatment facilities.	
Engineering	Civil and Environmental Engineering	ENV	6564	Environmental Engineering Design	An engineering design experience for Environmental Engineering graduate students. Students will work in teams on real world design projects in water or wastewater treatment.	201401, 201501, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Engineering	Civil and Environmental Engineering	ENV	6614	Quantitative Environmental Risk Analysis	Quantitative approach to the determination of risk. Focus is on environmental and control and protection, but techniques apply widely. Covers assessment of risk factors, failure, contaminant transport, and health effects. Includes discussion of significance, implementation, and policy. Course project involves the development of small risk analysis model.	
Engineering	Civil and Environmental Engineering	ENV	6617	Green Engineering for Sustainability	Offers an overview of principles of green engineering including innovation, inherency, interdisciplinary, integration, and international, with an emphasis on applications of green engineering principles in different design stages.	
Engineering	Civil and Environmental Engineering	TTE	6651	Public Transportation	Planning, design and operation of public transportation systems; costs and productivity of transit; impacts of transit on travel behavior and urban form; ridership forecasting; public transportation policy analysis.	201308, 201401, 201408, 201501, 201508, 201601
Engineering	Civil and Environmental Engineering	TTE	6655	Transportation and Land Use	Relationships between transportation and land use, coordinated transportation and land use planning, theory of urban development, urban sprawl, integrated transportation and land use models, transportation friendly urban design, and accessibility.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	ENV	6666	Aquatic Chemistry	An introduction to the form, structure, and chemical activities of the important processes essential to treatment of domestic and industrial wastewater.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	ENV	6667	Environmental Biotechnology	Study of biochemical relations and processes in treatment of pollutants with emphasis on control of effluents for the protection of water quality. CI.	201401, 201501, 201601
Engineering	Civil and Environmental Engineering	CGN	6720	Electrochemical Diagnostic Techniques	Fundamentals and applications of electrochemical diagnostic techniques. Focus on electrochemical impedance spectroscopy to evaluate reaction rates in corrosion and interfacial phenomena of materials. Includes research project.	201308, 201408, 201508
Engineering	Civil and Environmental Engineering	EVS	6920	Environmental Research Interdisciplinary Colloquium	Interdisciplinary seminar series that exposes students to a variety of environmental topics through presentations and interactive discussions with scholars and practitioners.	
Engineering	Civil and Environmental Engineering	CGN	6933	Special Topics in Civil and Environmental Engineering	Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Engineering	Civil and Environmental Engineering	ENV	6935	Environmental & Water Resources Engineering (EWRE) Seminar	This course consists of oral presentations made by EWRE students, faculty members, and outside speakers on their current topics of environmental and water resource engineering.	
Engineering	Civil and Environmental Engineering	CGN	6945	Graduate Research Methods in Civil & Environmental Engineering	Course covers proposal writing including review of successful proposals and scientific literature, developing research hypotheses and objectives, presenting preliminary results and developing a research program. Required core course for doctoral students.	201308, 201401, 201408, 201501, 201508, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Engineering	Civil and Environmental Engineering	ENV	5504C	Environmental Engineering Processes	Theory, experimental investigation, and modeling of operations and processes in engineered and natural systems. Laboratory evaluation of unit operations and process used in water and wastewater treatment including chlorination, activated carbon adsorption, biological treatment, gas/liquid mass transfer, filtration, coagulation, flocculation, and settling. This course is restricted to majors, has no external laboratory section associated with the course, is not available on an S/U basis only, is not cross-listed with another department or college.	
Engineering	Civil and Environmental Engineering	CES	6107C	Advanced Mechanics Of Materials II	Continuation of CES 5105C. Structural stability of beam-columns and frames, calculus of variations and energy methods, introduction to viscoelasticity and plasticity.	
Engineering	Computer Science and Engineering	CNT	6410	Emerging Topics in Network Security	Covers basic concepts of network security, network security primitives, authentication techniques, security and privacy issues in modern wireless systems, and vulnerability analysis of electric power grids.	
Engineering	Computer Science and Engineering	CAP	6455	Advanced Robotic Systems	Unmanned ground, aerial and underwater robots. Modeling, kinematics dynamics and control; navigation and collision avoidance; sensor fusion; vision-based navigation; sensor fault detection and isolation; system architectures and robot swarms.	
Engineering	Electrical Engineering	EEL	5250	Power System Analysis	Analysis and design technique for AC power systems.	201308, 201408, 201508
Engineering	Electrical Engineering	EEE	5356	Integrated Circuit Technology	Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.	201308, 201408, 201508
Engineering	Electrical Engineering	EEE	5382	Physical Basis Of Microelectronics	Quantum mechanics with emphasis on electronic properties in atoms, molecules and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.	201308, 201408, 201501, 201508, 201601
Engineering	Electrical Engineering	EEL	5935	Special Electrical Engineering Topics I		201305, 201308, 201401, 201408, 201501, 201508, 201601
Engineering	Electrical Engineering	EEL	5936	Special Electrical Engineering Topics II		201308, 201401, 201408, 201501, 201508, 201601
Engineering	Electrical Engineering	EEL	5937	Special Electrical Engineering Topics III		
Engineering	Electrical Engineering	EEL	6023	Engin Apps of Partial Diff Eq	Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions.	201505, 201601
Engineering	Electrical Engineering	EEL	6024	Matrix Theory and Optimization for Electrical Systems	Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverses. Eigen decomposition, Singular value decomposition. Optimization techniques: unconstrained and constrained optimization.	201505, 201601

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Engineering	Electrical Engineering	EEL	6027	Engin Apps for Vector Analysis	Vector methods of electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.	201505, 201508, 201601
Engineering	Electrical Engineering	EEL	6028	Math III for Professionals	Vector analysis: vector algebra, characterization of physical aspects of electric and magnetic fields. Partial differential equations, reading solution characteristics from separation-of-variables formulas.	201601
Engineering	Electrical Engineering	EEL	6227	Electrical Machines and Drives	A graduate course intended to familiarize students with the electrical to mechanical energy converters known as machines and the power electronic circuits used to control the machines and produce integrated drives.	201408, 201508
Engineering	Electrical Engineering	EEL	6245	Power Electronics	Covers topology, circuit analysis, and applications of various converters. Converters include switch-mode dc/dc converters, dc/ac converters and line frequency rectifiers and inverters. Applications of converters in dc motor control and ac motor control.	
Engineering	Electrical Engineering	EEL	6256	Power Systems II	A graduate course intended to familiarize students with the dynamics, control and protection of electrical power systems.	
Engineering	Electrical Engineering	EEL	6262	Industrial Power Distribution	Prepares student to design electrical power systems for industrial applications. Focuses on power system configurations, transformer connections, fault calculations, protective device sizing, arc flash calculations, and cable raceway system design.	
Engineering	Electrical Engineering	EEL	6263	Industrial Power Distribution II	Prepares student to design electrical power systems for industrial applications. Focuses on switchgear and motor control centers, ladder logic, motor application, lighting systems, power factor correction, and power quality.	
Engineering	Electrical Engineering	EEE	6273	Chemical/Biological Sensors and Microfabrication	This course discusses general concepts of MEMS, microfabrication and chem/bio sensors. The course concentrates on basics of MEMS, different processes involved and principles of sensing and understanding systems approaches to problems that require Sensors/MEMS.	201508
Engineering	Electrical Engineering	EEE	6276	MEMS I/Chem Bio Sensors	Introduction to MEMS, microfabrication techniques and processes as well as basic design principles of biological and chemical Sensors. The course concentrates on basics of MEMS, different processes involved and principles of sensing.	
Engineering	Electrical Engineering	EEE	6277	Bioelectronics	Second course in the series covering bioelectrical phenomena and systems. The focus is electronics for biomedical applications.	
Engineering	Electrical Engineering	EEL	6285	Energy Delivery Systems	The course provides the students the fundamentals and analysis of the electric power delivery system to facilitate the integration of renewal energy resources – wind energy and solar energy.	201501, 201601
Engineering	Electrical Engineering	EEL	6292	Power Sys Market: Oper & Analys	This course aims to present the backgrounds, state-of-the-art and challenges in current power systems, the operational models and computational methods, the basic economics on electricity market as well as system expansion and investment.	

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Engineering	Electrical Engineering	EEL	6293	Power Quality	Course in basic power quality concepts including interruptions, voltage sags and swells, transient overvoltages, and harmonics. Emphasis is placed on identifying and designing means of mitigation for commonly-encountered power quality problems.	
Engineering	Electrical Engineering	EEE	6318	Characterization of Semiconductors	Electrical, optical, chemical, and physical methods used to characterize semiconductor materials and devices; includes surface and near surface spectroscopes. Available to non-majors.	201501
Engineering	Electrical Engineering	EEE	6368	RF/MW Power Amp Design	The emphasis of this course is on microwave power amplifier design for hybrid and monolithic microwave integrated circuit implementations.	
Engineering	Electrical Engineering	EEE	6412	System on a Chip	Fundamental concepts: 2D and 3D SoCs. Digital, analog, MEMS, sensors, optoelectronics, and communication/networking blocks for SoC. DNA chips. Fabrication techniques including photolithography, TFD, and etching. Platform based design. Applications.	
Engineering	Electrical Engineering	EEL	6425	RF & Microwave Measurements	Concentrates on the theory and applications of modern radio frequency and microwave measurements. Topics include network analyzer, spectrum analyzer, noise, power and non-linear distortion measurements.	201308, 201401, 201408, 201501, 201508, 201601
Engineering	Electrical Engineering	EEE	6432	Nanostructures and Nanomaterials for Sustainable Systems	Introduction to nanostructures (tubes, wires, fibers, laminates, spheres, etc.) and materials used to create these structures for sustainable systems to solve global issues for the environment, alternative energy, medicine, pharmacy, sports, space, etc.	
Engineering	Electrical Engineering	EEL	6463	Advanced Antenna Theory	Electromagnetic radiating systems studied by analytical and numerical methods.	201401, 201501, 201508, 201601
Engineering	Electrical Engineering	EEL	6486	Electromagnetic Field Theory and Applications	Graduate-level course in time varying electromagnetic fields. This course is the basis for further study in wireless systems, antenna theory, power systems, high speed networks or electronics. Low frequency as well as high frequency concepts.	
Engineering	Electrical Engineering	EEE	6542	Random Processes In Electrical Engr	Review of probability theory, functions of random variables; examples in electrical engineering. Sequences of random variables. Concepts in random processes, correlation functions, power spectrum, random inputs to linear systems. Spectral analysis. Applications to engineering systems.	
Engineering	Electrical Engineering	EEL	6935	Selected Electrical Topics	Provides an introduction to passive RF/microwave/wireless circuit design. Topics to be covered include distributed distributed transmission line theory, lumped circuit and network analysis, impedance matching, and the design of various microwave components.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Engineering	Electrical Engineering	EEL	6481C	Numerical Techniques In Electromagnetism	Review of Maxwell's equations. Finite differences, finite elements, boundary elements method of moments. Introduction to geometric theory of optics and diffraction.	
Engineering	Electrical Engineering	EEL	6487C	Advanced Electromagnetic Field Theory	Time harmonic fields emphasizing problems with exact solutions in the rectangular, cylindrical and spherical coordinate systems. Solutions by methods, Green's functions and vector methods.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Engineering	Industrial and Management Systems Engineering	EIN	6145	Project Management	Provide principles and techniques for planning, scheduling and managing projects in engineering and related environments. Applies analytical tools and techniques including software to solve project management problems. Not restricted. Non-repeatable.	201305, 201405, 201505
Engineering	Industrial and Management Systems Engineering	EIN	6215	Engineering System Safety	The theory and practical implications of the concept of systems safety as these relate to the life cycle of a product or system. Analysis of the fundamental concepts, design implications, and specifications of safety in human machine environments.	201305, 201405, 201505
Engineering	Industrial and Management Systems Engineering	EIN	6216	Occupational Safety Engineering	Introduction to the principles of designing, maintaining, and managing a workplace free from hazards. Covers mechanical hazards, fall and lifting hazards, climatic and environmental hazards, fire and explosive hazards, and pressure hazards. Considers design issues, warnings, and personal protective equipment. Term project required.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Engineering	Industrial and Management Systems Engineering	EIN	6435	International Regulations for Medical Devices	The course provides students with information regarding the major global compliance issues related to medical devices. The initiatives of the Global Harmonization Task Force to facilitate international trade without compromising safety will be explored.	201308, 201401, 201408, 201501, 201508, 201601
Engineering	Industrial and Management Systems Engineering	ESI	6635	Advanced Analytics I	Data are motivating a profound transformation in the operation management in all fields of engineering and business. Navigate the overload to optimally prepare and enrich data to use as a key ingredient for powerful analytical insights.	201601
Engineering	Interdisciplinary Engineering	EGN	5421	Engineering Applications for Vector Analysis	Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.	201305, 201308, 201405, 201408, 201501, 201505, 201508
Engineering	Interdisciplinary Engineering	EGN	5422	Engineering Applications of Partial Differential Equations	Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions. Calculus of variations. Numerical methods.	201305, 201401, 201405, 201501, 201505, 201601
Engineering	Mechanical Engineering	EML	6223	Synthesis of Vibrating Systems	Advance topics in vibration. Random vibration in mechanical systems. Auto-correlation and power spectral density. Response of single and multidegree of freedom systems to random excitation. Frequency response function and coherency measurements. Contents variable.	201308, 201408, 201508
Engineering	Mechanical Engineering	EML	6290	Micro and Nano Manufacturing	Covers the fundamental understanding of design, fabrication, and applications of microelectromechanical systems (MEMS) and nanomanufacturing processes including sensing and actuation of mechanical, optical and microfluidic devices.	201305, 201308, 201408, 201508
Engineering	Mechanical Engineering	EML	6594	Haptics	Course covers the theory and implementation of haptic interfaces and rendering, teleoperation, modeling, control and stability of feedback for robotic systems and virtual environments, and introduces the related human haptic sensing capabilities.	201401, 201501, 201508, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Engineering	Mechanical Engineering	EML	6801	Robotic Systems	Overview of existing industrial and specialized robot types and operation; vision systems; tactile sensors; ranging and proximity techniques; actuation/transmission methods; power sources; autonomous vehicle mobility and navigation methods; and artificial intelligence.	201401, 201501, 201505
Global Sustainability	Global Sustainability	IDS	6207	Renewable Transportation Fuels	The course will analyze the market status and prospects, the production technologies, the economics and finance, and the regulatory and environmental aspects of renewable transportation fuels with a focus on sustainable fuels from biomass and algae.	201508
Global Sustainability	Global Sustainability	IDS	6208	Renewable Power Portfolio	The course will analyze the market status and growth potential of the portfolio of renewable power sources, the production technologies, the economics/financing, infrastructure integration and smart grid issues, and regulatory and environmental aspects.	201601
Global Sustainability	Global Sustainability	IDS	6233	Concepts and Principles of Sustainability	This course discusses basic concepts and principles of sustainable development. It discusses systems thinking and different sustainability perspectives such as local/global and historical/future. Best practices will be analyzed through case studies.	201308, 201401, 201408, 201501, 201508, 201601
Global Sustainability	Global Sustainability	IDS	6234	Systems Thinking: The Key to Sustainability	The course develops the critical system thinking skills to solve sustainability challenges. It covers quantitative system analysis techniques including environmental impact assessment, life-cycle assessment, cost-benefit analysis and decision analysis.	201401, 201501, 201601
Global Sustainability	Global Sustainability	IDS	6235	Economics and Finance for Sustainability	The course provides sustainability practitioners an overview of how economics and finance enhance sustainability. The emphasis is on environmental economics and innovative finance; students learn how scarce natural resources can be optimally allocated.	201308, 201408, 201508, 201601
Global Sustainability	Global Sustainability	IDS	6236	Sustainable Tourism Development: Principles & Practices	Focuses on environmentally and socially responsible tourism strategies and innovations. Emphasizes establishing policies and management plans to identify and reduce the environmental impact created by tourism facilities and services.	201308, 201408, 201508
Global Sustainability	Global Sustainability	IDS	6237	Ecotourism & Sustainable Tourism Mgmt Coastal/Marine Habitat	Introduction to environmental management from technical and non-technical perspectives. The major topics covered will be water and air quality, environmental sustainability, collaboration, and building consensus.	201401, 201501, 201601
Global Sustainability	Global Sustainability	IDS	6238	Communicating the Value of Sustainability	Provides 1) an understanding of the challenges of communicating about sustainability; 2) a theoretical framework for analyzing these challenges; and 3) practice at applying that knowledge to their writing.	201401, 201501, 201601
Global Sustainability	Global Sustainability	IDS	6245	Sustainable Water Resource Management: Doing More with Less	This course provides an overview of the challenges and strategies for sustainable water resource management for coordinated planning, development and management of water resources. It will discuss technical, legal and institutional frameworks.	201408, 201508
Global Sustainability	Global Sustainability	IDS	6246	Water Sensitive Urban Design for Sustainable Communities	Comprehensive introduction to Water Sensitive Urban Design an interdisciplinary approach that encompasses urban water management, management of ecosystem services and urban/landscape design.	201601

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Marine Science	Marine Science	OCC	6050	Biological Oceanography	Study of life in the oceans, its rates and processes, and its interaction with the physical and chemical environment. Lec.	
Marine Science	Marine Science	OCC	6050	Chemical Oceanography	The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, organic matter, and stable and radioactive isotopes. Lec	
Marine Science	Marine Science	OCC	6050	Physical Oceanography	The world ocean including its morphology, physical properties, currents, waves, tides, heat and water budgets, and related topics. Lec.	
Marine Science	Marine Science	OCC	6051	Geological Oceanography	Marine geology including plate tectonics; coastal, shelf and pelagic sedimentation; geochemical cycling; and sedimentary history of the ocean basins. Lec	
Marine Science	Marine Science	OCC	6216	Marine Organic Chemistry	Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction with trace metals, isotopic fractionation, microbial alterations, and biochemical tracers.	
Marine Science	Marine Science	OCC	6567	Phytoplankton Ecology	An introduction to the physiology and ecology of marine phytoplankton. Emphasis will be on those variables and interactions that regulate photosynthesis, production, nutrient kinetics and regeneration, growth, spatial distribution, losses, and succession.	
Marine Science	Marine Science	OCC	6664	Paleoceanography	The study of the development of the ocean system through geologic history, including tectonic framework, sea level history, paleoclimatology, paleocirculation within the ocean basins, and the evolution of marine biota.	
Marine Science	Marine Science	OCC	6668	Evolution and Ecology of Reefs	Advanced course in ecology and evolution of reef communities. Topics include environmental controls on reef development, basic components of modern reef communities, and how those components have changed through geologic time.	
Marine Science	Marine Science	OCC	6934	Selected Topics in Oceanography	Special topics in Biological, Chemical, Geological, and Physical Oceanography.	201308, 201401, 201408, 201501, 201508, 201601
Marine Science	Marine Science	OCC	6057L	Methods in Chemical Oceanography	An intensive study of the use and limitations of field and laboratory equipment that is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.	
Marine Science	Marine Science	OCC	6551C	Scanning Electron Microscopy: Theory and Technique	Theory and practical application of the scanning electron microscope and the energy dispersive X-ray analyzer. Emphasis is on independent operation of the instruments, preparation techniques for specimens, and interpretation of results.	
Marine Science	Marine Science	OCC	6656C	Marine Micropaleontology	Introduction to the microscopic marine fauna and flora found in the fossil sedimentary record. Emphasis is placed on the ecology, paleoecology, paleontology, and biostratigraphic record of calcareous and siliceous microfossils.	
Marine Science	Marine Science	OCC	6671L	Methods In Biological Oceanography	To acquaint students with field and laboratory equipment and techniques currently used in biological oceanography. Emphasis will be on field problems, especially those requiring research at sea.	

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Marine Science	Marine Science	OCE	6940C	Experiential Learning in Marine Science	Demonstrates marine science teaching protocols via the examination of marine science concepts and inquiry-based learning strategies through team building, lab-based research experiences, and field explorations to local marine environments.	
Medicine	Medical Sciences	GMS	6000	Medical Science Success Skills	This course comprises a review of the material required for the biology and physics and mathematics and verbal sections of the MCAT exam.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Medicine	Medical Sciences	GMS	6001	Foundation in Biomedical Sciences	A multidisciplinary course in the cellular, molecular, biochemical, and genetic basis of biomedical sciences, designed as a comprehensive first semester course for most incoming biomedical sciences graduate students.	201308, 201401, 201408, 201501, 201508, 201601
Medicine	Medical Sciences	GMS	6010	Personalized Medicine	The course is designed to introduce the various principles that influence the discipline of genomics and the application to personalized medicine which utilizes information on genes, proteins and the environment to prevent, diagnose and treat disease.	
Medicine	Medical Sciences	GMS	6012	Basic Medical Genetics	The course examines fundamental aspects of genetics critical to understanding the mechanisms and inheritance patterns of genetic diseases relevant to human health including clinical, biochemical and molecular genetics, cytogenetics and genetic counseling.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Medicine	Medical Sciences	HIM	6018	e-Healthcare Ethics	Examines selected ethical considerations that are significant components of health informatics and electronic medicine and often represent important considerations to be addressed during the delivery of healthcare using e-medicine models.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Medicine	Medical Sciences	GMS	6054	Cancer Biology	Designed to give a broad understanding and discussion of the biology of cancer cells and the changes in cell structure and function leading to malignancy and uncontrolled cell proliferation.	201408, 201508
Medicine	Medical Sciences	GMS	6066	Molecular Medicine	A comprehensive introduction to molecular medicine with an emphasis on the integration of those aspects of biochemistry, cell biology and genetics that have immediate relevance to the understanding of various disease processes and their treatment.	201308, 201408, 201508
Medicine	Medical Sciences	GMS	6069	Translational Biotechnology	The course teaches how the results of biological, biomedical and bioengineering research can be translated into applicable procedures and products and enhances the information via site visits to local non-profit and for-profit biotech institutions.	201401, 201501, 201601
Medicine	Medical Sciences	GMS	6100	Medical Microbiology	Lecture, directed literature readings, and discussion form the basis to instruct graduate and advanced undergraduate students in Medical Microbiology. The course will now cover pathobiology and molecular biology of medically important bacteria.	

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Medicine	Medical Sciences	GMS	6101	Molecular and Cellular Immunology	Lecture, directed literature readings, and discussion form the basis to instruct graduate and advanced undergraduate students in development, function, regulation, pathobiology, and conduct of research in medically relevant immunity.	201308, 201401, 201408, 201501, 201508, 201601
Medicine	Medical Sciences	GMS	6103	Foundations in Medical Microbiology and Immunology	This course is designed to provide students with a basic understanding of the immune system and basic concepts in microbiology and infectious diseases using representative pathogens. This course is for doctoral and research-oriented master's students.	201401, 201501, 201601
Medicine	Medical Sciences	GMS	6107	Advances in Virology	Lecture, directed literature readings, and discussion form the basis to instruct graduate and advanced undergraduate students in Medical Virology. The course will now cover pathobiology and molecular biology of medically important viruses.	201401, 201405, 201501, 201505, 201601
Medicine	Medical Sciences	HIM	6114	Integrated Electronic Medical Records	Integrated electronic medical records is designed to provide an overview of the functions, limitations, opportunities and challenges presented by this very rapidly developing branch of information technology in the healthcare environment.	201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Medicine	Medical Sciences	GMS	6130	Molecular Biology of Tumor Viruses	This course is focused on tumor viruses which are involved in the pathogenesis of cancer and utilized in gene therapy as vectors. The lectures will cover current concepts of the field, specific viral genes and gene products involved in cancer, and molecular mechanisms by which viruses transform normal cells to cancer cells.	
Medicine	Medical Sciences	GMS	6141	Basic Medical Immunology and Microbiology	The course focuses on the fundamental aspects of immunology and microbiology that are critical to understanding the nature of the immune response and identify the various microbiological agents that are relevant to human health and disease.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Medicine	Medical Sciences	GMS	6142	Cancer Immunology	Provide a broad understanding of the role of immunity in cancer biology and the potential applications of immunological methods in cancer therapies.	
Medicine	Medical Sciences	GMS	6201	Basic Medical Biochemistry	The course examines fundamental aspects of biochemistry critical to understanding the chemical and cellular mechanisms relevant to health and disease including intermediary metabolism, enzymology and storage and transfer of genetic information.	201308, 201401, 201408, 201501, 201508, 201601
Medicine	Medical Sciences	BMS	6206	Molecular Medicine	Emphasis of biochemistry, cell biology, and genetic that have immediate relevance for clinical medicine while also providing a fundamental foundation of understanding that will permit life-long learning. The pathogenesis of disease will be understood based on a practical understanding gained from the students address in this course.	
Medicine	Medical Sciences	GMS	6323	Pathology Case Studies 1	This course emphasizes principles of pathology, including cell injury, inflammation, immunopathology, neoplasia and congenital and environmental pathology, by focusing on the anatomical, pathophysiological and pathologies in the musculoskeletal system.	

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Medicine	Medical Sciences	GMS	6324	Pathology Case Studies 2	This course emphasizes principles of pathology, including cell injury, inflammation, immunopathology, neoplasia and congenital and environmental pathology, by focusing on the anatomical, pathophysiological and pathologies in the gastrointestinal system.	
Medicine	Medical Sciences	GMS	6325	Pathology Case Studies 3	This course emphasizes the principles of pathology, including cell injury, inflammation, immunopathology, neoplasia and congenital and environmental pathology, by focusing on the anatomical, pathophysiological and pathologies in the neurological system.	
Medicine	Medical Sciences	GMS	6326	Pathology Case Studies 4	This course emphasizes the principles of pathology, including cell injury, inflammation, immunopathology, neoplasia and congenital and environmental pathology, by focusing on the anatomical, pathophysiological and pathologies in the reproductive system.	
Medicine	Medical Sciences	GMS	6331	Stem Cell Biology	Designed to give a broad understanding of the biology of stem cells and their potential role in the treatment of various pathological conditions.	
Medicine	Medical Sciences	GMS	6334	Pathobiology of Human Cancer	Using tissue-related oncology topics that complement molecular biology & experimental therapeutics, this graduate course will provide the morphologic and biologic basis of human cancer. This course is not restricted and is repeatable for 3 credits.	201401, 201501, 201601
Medicine	Medical Sciences	GMS	6380	Medicine and Gender	This course covers biological differences between men and women in the central nervous system, cardiovascular system, and the immune system. Women's health topics include gestational diabetes, obesity and breast feeding and men's reproductive health.	
Medicine	Medical Sciences	GMS	6409	Integrated Cardiovascular Biology	Designed to give a broad understanding of the biology of the cardiovascular system and the various pathophysiological changes that cause chronic heart disease together with discussion of appropriate therapies.	
Medicine	Medical Sciences	GMS	6410	Cardiovascular Regulation	The course involves discussions/advanced readings of current trends in many aspects of the cardiovascular system including cardiac function, vascular biology, and signaling.	201305, 201308, 201408, 201508
Medicine	Medical Sciences	BCH	6411	Biomedical Genomics and Genetics	An overview of Biomedical Genomics & Genetics and current and potential applications in biology & medicine, including identification of gene defects and the use of genetic tools for diagnosis and treatment of disease.	201401, 201501, 201601
Medicine	Medical Sciences	GMS	6418	Core Principles and the Musculoskeletal System	Emphasized in this course are those aspects of fundamental biochemistry, cell biology, and genetics, the anatomy of the musculoskeletal system, and the development of human behavior that have immediate relevance for clinical medicine.	201308, 201408, 201508
Medicine	Medical Sciences	GMS	6431	Cell Physiology	Examine organelles and macromolecular complexes of eukaryotic cells with respect to structural and functional roles in major cellular activities. Emphasizes on experimental basis for factual knowledge in modern cell biology, discusses the validity of current concepts in relation to the regulation of cellular functions. Suitable for first and second year graduate students.	

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Medicine	Medical Sciences	BSC	6436	Introduction to Biotechnology	The course focuses on biotechnology, the integration of biology and technology and its applications in genomics, forensics, agriculture, engineering and medicine that have resulted in new products and services and solved biological/biomedical problems.	201308, 201408, 201508
Medicine	Medical Sciences	GMS	6444	Co-Active Coaching	This course explores current developments in the co-active coaching model of behavior modification and how to establish sustainable patient relationships.	201401, 201501
Medicine	Medical Sciences	GMS	6445	Integrative Lifestyle Medicine	This course explores the process of patient counseling in lifestyle medicine with topics that include nutritional depletions, the concept of foods as nutrients, vitamins, minerals and herbal therapies and their importance in patient treatments.	
Medicine	Medical Sciences	GMS	6457	Integrative Weight Management	Detailed examination of the genetic, metabolic, nutritional and environmental factors associated with weight gain and obesity and appropriate therapies used to treat obesity.	
Medicine	Medical Sciences	GMS	6458	Metabolic Triads	Detailed understanding of the important aspects of the various organ and metabolic pathway interrelationships together with various disturbances that can result in a wide variety of pathophysiological diseases.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508
Medicine	Medical Sciences	GMS	6601	Methods of Electron Microscopy in Medical Research	This lecture and laboratory course deals with theoretical and technical issues regarding the use of the electron microscope in biomedical research.	
Medicine	Medical Sciences	BCH	6627	Molecular Basis of Disease	The course will deal with the genetic, molecular, and biochemical basis of human diseases.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Medicine	Medical Sciences	BMS	6640	Core Principles of Med Science/Musculoskeletal Sys	A comprehensive/integrated discussion of the basic principles of Anatomy/Biochemistry/Cell Biology/Genetics/Molecular/Biology/Neuroscience/Physiology & Human Behavior plus a discussion of the anatomy/biochemistry/physiology of the musculo-skeletal system.	
Medicine	Medical Sciences	HIM	6664	Healthcare Project Management	Healthcare Project Management is designed to provide a discussion of the various facets of initiating, planning, executing, monitoring, closing, and controlling projects in healthcare environments.	201501, 201505, 201508, 201601
Medicine	Medical Sciences	GMS	6706	Basic Medical Neuroscience	The course focuses on the function of the human nervous system and examines nerve cell biology and how cells are organized into functional systems. Structure/function relationships are emphasized including examples of abnormal cell function in disease.	201401, 201501, 201601
Medicine	Medical Sciences	GMS	6735	Neuropharmacology	This course will familiarize students with information on the biochemical basis of neural regulatory systems in the brain and the application of the latest approaches to the study of neurotransmitters and drug action in the nervous system.	201305, 201405, 201505
Medicine	Medical Sciences	BCH	6746	Structural Biology	The theory and application of modern physical biochemical techniques.	201401, 201501, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Medicine	Medical Sciences	GMS	6751	Integrated Clinical Neurobiology	The course introduces the principles of neurology and the role of neurotransmitters in cellular function and communication between cell types and focuses on gastrointestinal health in relationship to the immune system and neurotransmitter function.	201308, 201401, 201405, 201408, 201501, 201508, 201601
Medicine	Medical Sciences	GMS	6752	Autoimmune Diseases and Cognitive Function	Basic and clinical aspects of memory enhancement and memory loss are described together with the physiological changes that result from various autoimmune diseases and the critical roles of mitochondria in energy metabolism and oxidative stress.	201305, 201308, 201401, 201501, 201508, 201601
Medicine	Medical Sciences	BCH	6888	Bioinformatics	An introduction to computer software applications for research in Biochemistry and Molecular Biology. Emphasis on database searching and submission, data analysis and graphical presentation, DNA and protein sequence analysis and molecular modeling. Lec./Pro.	201305, 201405, 201505
Medicine	Medical Sciences	BCH	6942	Bioinformatics Internship I	This course focuses on applications of bioinformatics and computational biology principles in a practical environment necessary for an "in-depth" understanding of how the methodologies of bioinformatics can be applied to solve bioscience problems.	
Medicine	Medical Sciences	BCH	6943	Bioinformatics Internship II	This course focuses on applications of bioinformatics and computational biology principles in a practical environment necessary for an "in-depth" understanding of how the methodologies of bioinformatics can be applied to solve bioscience problems.	
Medicine	Medical Sciences	GMS	6943	Biotechnology Internship	The course teaches, hands-on, in companies and institutions, how the results of biological, biomedical and bioengineering research are translated into the development of drugs, devices, diagnostics, therapies, services as well as patents and licenses.	
Medicine	Medical Sciences	BMS	7303	Clinical Microbiology and Immunology	This course will focus on an experiential approach to issues in clinical microbiology and immunology of relevance to the practicing physician.	
Medicine	Medical Sciences	BCH	6135C	Methods in Molecular Biology	An introduction to modern molecular biological techniques and instrumentation. Lec. Lab.	
Medicine	Medical Sciences	GMS	6200C	Biochemistry, Molecular and Cellular Biology	The overall objectives of GMS 6200 are to provide students with a solid foundation of biochemical principles and a fundamental understanding of structures and processes of living systems at the molecular and cellular levels.	
Medicine	Orthopaedics & Sports Medicine	ATR	5307C	Therapeutic Interventions II	Theory and application methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.	
Nursing	Nursing	NGR	5871	Informatics in Nursing and Healthcare	Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health care documentation, electronic medical records, and web-based technologies for healthcare.	

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Nursing	Nursing	NGR	6220	Pathobiology Of Neoplasia	Emphasizes basic concepts of cellular differentiation and the abnormal cytological changes occurring in the pathogenesis of Neoplasia. Also emphasized is the role of the advanced practice nurse in relation to the role of the immune system and diet in oncogenesis, and the epidemiology and pathology of specific types of cancers.	201308, 201408, 201508
Nursing	Nursing	NGR	6342	Primary Care of Childbearing Family	Management of common, episodic and chronic health problems in women before, during and after conception. Developmental stage, psychosocial strengths, lifestyle variations, environmental stresses, cultural diversity and resources will be incorporated.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Nursing	Nursing	NGR	6400	Chemistry, Biochemistry and Physics for Nurse Anesthesia	This course examines the laws and principles of inorganic chemistry, organic chemistry and physics as they apply to pharmacology and the clinical practice of nurse anesthesia. Restricted to majors.	201308, 201408, 201508
Nursing	Nursing	NGR	6472	Pharmacology of Pain Management	This course is designed to review the commonly used analgesic medications in pain management clinical practice. It also reviews chemical dependency, addiction, and professional responsibilities associated with high risk medications.	
Nursing	Nursing	NGR	6538	Psychopharmacology	Provide advanced knowledge of psychobiological information with the use of psychopharmacological interventions in patients. Focus will be on pharmacokinetics and clinical management including prescription of medications for psychiatric disorders.	
Nursing	Nursing	NGR	6651	Occupational Health Nursing II	Focuses on the analysis of clinical strategies (e.g. triage, biological monitoring) relevant to advanced occupational health programs, medical surveillance programs, and worker's compensation managed care.	201401, 201501, 201601
Nursing	Nursing	NGR	6653	Occupational Health Nursing IV	Focuses on the management of psychosocial factors in the occupational setting; examples of occupational health and safety programs; environmental health; research; and professional issues related to occupational and environmental health nursing.	
Nursing	Nursing	NGR	6737	Ethical, Legal, and Policy Issues in Advanced Nursing Practice	Emphases on contemporary ethical, legal, and policy issues related to advanced nursing practice and health care delivery; issues are analyzed at the global, national and local levels; nursing's role in agenda setting and strategies for health care reform.	
Nursing	Nursing	NGR	7141	Pathophysiology for Advanced Practice II	Core elements of embryologic, genetic, and environmental factors in disease will be presented as well as aspects of immune phenomenon as related to genetic information and research impetus.	201401
Nursing	Nursing	NGR	6473C	Interventional Procedures/Simulations in Pain Management	This course focuses on introduction of radiology & various interventional techniques used in treatment of pain syndromes. Interventional modalities of pain management will be performed in a Simulation/Cadaver Teaching environment for this course.	
Nursing	Nursing	NGR	6770C	Introduction to the Clinical Nurse Leader Role	Concepts essential for the students' development into a Clinical Nurse Leader, focusing on the CNL role, communication, leadership and assessing the practice environment. Clinical assignments are designed to assist them in developing the CNL role.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Nursing	Nursing	NGR	6777C	Shaping the Practice Environment	Concepts essential to shape the clinical practice environment, including components of a patient centered, safe effective and equitable care environment.	
Public Health	Community and Family Health	DIE	6127	Principles of Leadership and Management of Food and Nutrition	Course equips students with leadership and management skills needed to establish and maintain effective food and nutrition programs. Food service and clinical nutrition management is addressed so students can adapt to a changing healthcare environment.	
Public Health	Community and Family Health	PHC	6197	Secondary Data Analysis in Maternal and Child Health	The purpose of this course is to provide experience in the management and analysis of data sets relevant to public health. Among the data sets considered are vital statistics, health care utilization databases, practitioner and other registries, periodic surveys, selected surveillance systems, and programmatic data.	201308, 201408, 201508
Public Health	Community and Family Health	DIE	6248	Advanced Clinical Nutrition	An integration of pathophysiology, biochemistry, and nutrition concepts that form the basis for medical nutrition therapy in health care.	
Public Health	Community and Family Health	PHC	6400	Maltreated Children and Their Families	This course will identify and analyze public health policy and research issues specific to the area of child maltreatment.	201308, 201401, 201408, 201501, 201508, 201601
Public Health	Community and Family Health	PHC	6411	Introduction to Social Marketing for Public Health	This course is designed to analyze the components and applications of social marketing for public health: theoretical foundations; research methods; strategy development; program design and implementation, materials pretesting, and ethics.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Public Health	Community and Family Health	PHC	6413	Family and Community Violence in Public Health	The objective of this course will be to identify and to focus on the most serious policy and research issues which are specific to the field of family violence. The course will cover theory, research, and applied programs in community settings.	201305, 201405, 201505
Public Health	Community and Family Health	PHC	6414	Adolescent Health	The purpose of this course is to provide an overview of adolescent health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions with adolescents and the skills needed for effective teaching methodologies to enhance health provider communication with adolescents. This course is not restricted to Public Health graduate students.	201308, 201408, 201505, 201508
Public Health	Community and Family Health	PHC	6418	Public Health and Aging	A study of specific health promotion and disease prevention strategies for older adults in the context of community health, immunizations, nutrition, exercise, and stress management. Also management for chronic disease, delay of disabilities, and types of long term care deliver and settings are examined.	
Public Health	Community and Family Health	PHC	6419	Global Issues in Community and Family Health	This course provides an overview of current public health issues and problems affecting communities and families around the world. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development. Problems are addressed in terms of etiology, impact and intervention strategies. Reg. Permit Required. CI.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Community and Family Health	PHC	6461	Advanced Social Marketing	This course enables students to use the social marketing framework to analyze public health problems and design program solutions. The course focuses on a managerial perspective to improve organizational efficiency and social design principles.	201308, 201401, 201408, 201501, 201508
Public Health	Community and Family Health	PHC	6521	Public Health Nutrition	Review of nutrition issues and programs for infants, children, adolescents, adults and elderly, food security, and the role of nutrition education in improving public health.	201305, 201408, 201508
Public Health	Community and Family Health	PHC	6532	Women's' Health Issues in Public Health	A public health orientation of women's health needs with their impact on society, family, and children.	201305, 201308, 201408, 201508
Public Health	Community and Family Health	PHC	6537	Case Studies in MCH Programs, Policies and Research	Capstone course intended to provide unifying opportunity to utilize concepts, principles, and skills learned in other MCH and public health courses.	201401, 201501, 201601
Public Health	Community and Family Health	PHC	6539	Foundations in Adolescent Behavioral Health	Examines the interaction of epidemiology, disease surveillance, social neuroscience, environmental vulnerability, pharmacology, and developmental risk & resiliency that affect youth populations at risk for drug use and mental disorders.	201401, 201501, 201601
Public Health	Community and Family Health	PHC	6580	Prevention and Control of Unintentional Injuries	Prepares students to critically analyze the nature, magnitude and intervention strategies of unintentional injuries and propose new directions for prevention and control. Not restricted to public health majors.	
Public Health	Community and Family Health	PHC	6590	Reproductive Health Trends And Issues	Provides understanding of reproductive factors in Health and Disease and its impact on community, family, and individual quality of life, and to apply current advances in FP and MCH care components and management in Public Health Programs.	201305, 201401, 201501, 201601
Public Health	Community and Family Health	PHC	6725	Focus Group Research Strategies	This course is an intensive overview of focus group procedures in the public health environment. Attention will be placed on question development, moderator skills, analysis strategies and planning critical logistical details of focus group interviews, and analyzing results of focus group interviews. The course will examine unique methodological characteristics of focus group interviews, identify emerging trends, and explore areas of appropriate and inappropriate use.	201401, 201501, 201601
Public Health	Community and Family Health	PHC	7103	Transforming Public Health Practice	An introduction to the needs for developing the contemporary public health infrastructure. An overview of current issues and methods of public health practice in addition to issues and methods of public health leadership and management.	201408, 201508
Public Health	Community and Family Health	PHC	7149	Practical Applications II: Public Health Leadership	Designed to engage future public health leaders in discussions and critical thinking activities regarding leadership roles and responsibilities as they contribute to a leadership framework in public health academic, governmental or community practice.	201505
Public Health	Community and Family Health	PHC	7152	Policy and Practice in Community and Family Health	This course is designed to prepare students to critically analyze issues and develop skills pertaining to effective policy development and practice in community and family health public health programs.	201401, 201501, 201508, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Community and Family Health	PHC	7154	Evidence-informed Public Health I	This course provides an overview of evidence-informed public health practice in addition to skills for evidence-informed decision making.	
Public Health	Community and Family Health	PHC	7156	Evidence-Informed Public Health II	An overview of evidence-informed public health decision making including: assessment of scientific evidence; development and quantification of problem statement; prioritizing evidence-informed options; and, translating evidence to action.	
Public Health	Community and Family Health	HSC	7260	Professional Foundations II: Teaching Methods	Prepares public health students for teaching in the college and university setting. Overview of knowledge, strategies, and skills including but not limited to: learning styles, teaching methods, motivational strategies.	201401, 201501
Public Health	Community and Family Health	HSC	7267	Professional Foundations I: Becoming a Doctoral Student	This doctoral seminar is designed to introduce students to important concepts and skills related to doctoral study in Public Health.	201308, 201408, 201508
Public Health	Community and Family Health	HSC	7268	Professional Foundations III: Joining the Academy	Prepares the public health doctoral candidate with tools for career building.	201305, 201405, 201501, 201505
Public Health	Community and Family Health	PHC	7405	Theoretical Application to Public Health Issues	Designed for the advanced doctoral student focusing on the application of theory for developing, implementing, and evaluating public health interventions.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Public Health	Community and Family Health	PHC	7417	Family Systems and Public Health	Intended for doctoral students in Community and Family Health interested in social and behavioral theories of family and health behavior. Covers an array of theoretical perspectives related to the process, structure and function of systems. Examines the human values associated with intimate and non-intimate relationships that comprise healthy relational settings. Implications of these conceptual and theoretical frames for public health issues will be discussed.	201308, 201408, 201508
Public Health	Community and Family Health	PHC	7702	Advanced Public Health Research and Evaluation Methods	This course focuses on advanced research and evaluation methods of multi-level community based public health initiatives. Models and processes for evaluation of multi-level program interventions, study design and appropriate methods are covered.	201305, 201308, 201405, 201408, 201505, 201508
Public Health	Community and Family Health	PHC	7704	Applied Research Methods in Community and Family Health	Focuses on the application of appropriate theories, models, and methods of research inquiry to multi-level public health research and evaluation.	201308, 201408, 201508
Public Health	Community and Family Health	PHC	7709	Case Studies in the Quantitative Analysis of Public Health Data	Focuses on training students in public health applications of multivariate analytic techniques including factor analysis, regression analysis, multivariate analysis of variance, event history analysis, multi-level modeling and structural equation modeling.	
Public Health	Community and Family Health	PHC	7932	Practical Applications I: Policy, Advocacy and Public Health	This seminar course is designed to engage current public health practitioners in discussions and critical thinking activities that build skills for influencing health policy and program decision-making.	
Public Health	Community and Family Health	PHC	7937	Advanced Seminar in Grant-Writing	This course addresses advanced skills and techniques necessary for writing successful research grant proposals. The focus is on writing grant proposals aimed at public health research and evaluation of public health interventions.	201305, 201401, 201405, 201501, 201505

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Environmental and Occupational Health	PHC	6301	Water Pollution and Treatment	A study of treatment technologies for water and wastewater. Emphasis is given to treatment technologies appropriate for developing countries.	201308, 201401, 201408, 201501, 201508, 201601
Public Health	Environmental and Occupational Health	PHC	6303	Community Air Pollution	A study of air pollutants. Emphasis is given to sources and control technologies as well as health effects and environmental impact.	201308, 201401, 201408, 201501, 201508
Public Health	Environmental and Occupational Health	PHC	6305	Environmental Analytical Laboratory	Techniques used for quantitative sampling and analysis of air, water, and soil contaminants.	201401, 201501, 201601
Public Health	Environmental and Occupational Health	PHC	6306	Radiation Health Principles	An analysis of the basic concepts of radiation and the protection of individuals and population groups from ionizing and non-ionizing radiation as well as establishing relationships between radiation exposure and biological damage.	201308, 201401, 201408, 201501, 201508
Public Health	Environmental and Occupational Health	PHC	6310	Environmental Occupational Toxicology	A study of the nature of industrial and environmental toxins and toxic by-products, generated and distributed, leading to disease, disability, or death, and the control measures available. Lecture and appropriate laboratory methods are used.	201401, 201501, 201601
Public Health	Environmental and Occupational Health	PHC	6313	Indoor Environmental Quality	Students will learn the importance of maintaining acceptable indoor environmental quality in occupational and residential settings. The course will emphasize current techniques, data interpretation methods, and proper data / conclusions reporting.	201305, 201405, 201505
Public Health	Environmental and Occupational Health	PHC	6326	Global Issues in Environmental Health	Introduces students to global issues regarding civilization, industrialization and globalization and their effects on the environment and the health of workers and their families.	
Public Health	Environmental and Occupational Health	PHC	6350	Occupational Toxicology and Risk Assessment	A study of methods for assessing potential hazards associated with occupational health environments. Evaluation of techniques for the development of comparative rankings of problem areas.	201401, 201501, 201601
Public Health	Environmental and Occupational Health	PHC	6353	Environmental Toxicology and Risk Assessment	Designed to provide training for students to develop the skills necessary to identify, characterize, quantify, and manage human health and ecological risks for the protection of human health and the environment.	201305, 201405, 201505
Public Health	Environmental and Occupational Health	PHC	6357	Environmental and Occupational Health	The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Environmental and Occupational Health	PHC	6359	Xenobiotic Metabolism in Environmental and Occupational Health	Study of enzymes involved in biotransformation of foreign compounds important in environmental and occupational health.	201308, 201408, 201508
Public Health	Environmental and Occupational Health	PHC	6361	Industrial Ergonomics	Systems logic and methodology for assessing the potential impact of work environments on the health and safety of workers; application of occupational ergonomics and human factors to the design and evaluation of complex work environments.	201401, 201501, 201601
Public Health	Environmental and Occupational Health	PHC	6369	Industrial Toxicology	This course will focus on specific industries, industrial processes and the chemicals that worker's may be potentially exposed to, and their impact on Public Health. The Standard Industrial Classification (SIC) division structure will be used to identify industries that have been studied by NIOSH or other agencies. For each industry identified, chemical hazards, exposure routes, toxicology effects, and monitoring methods will be discussed emphasizing the need for a multidisciplinary approach in providing information aimed at reducing worker exposures to industrial toxicants.	201305, 201405, 201505
Public Health	Environmental and Occupational Health	PHC	6370	Biological and Surface Monitoring	This public health course will provide students with a thorough understanding of Biological Monitoring as a method of evaluating exposure to environmental agents. Students learn to distinguish between the limitations of this emerging technology and how to avoid pitfalls associated with misapplication of results. Students learn how to develop sampling strategies for specific chemicals.	
Public Health	Environmental and Occupational Health	PHC	6371	Air Dispersion Modeling for Regulatory Compliance	A study of air pollution meteorology (atmospheric energy balance, inversions and winds), micrometeorology (atmospheric fluid mechanics, turbulence, winds, stability classes, convective boundary layer) and atmospheric diffusion (different theories, Gaussian plume equation, air quality models, atmospheric removal processes), supported by a computer laboratory.	
Public Health	Environmental and Occupational Health	PHC	6373	Protecting Public Health: Bioterrorism/Biodefense	The theoretical, historical and contemporary issues associated with public health protection and safety. This includes quarantine, health and safety management, homeland security, and the history of biological warfare.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Environmental and Occupational Health	PHC	6422	Environmental Health Law	Review and analysis of Federal and State laws and regulations in relation to the pollution, regulation and protection of the air, water, and environment issues in general.	201308, 201408, 201508
Public Health	Environmental and Occupational Health	PHC	6515	Food Safety	Overview of food safety practices and principles emphasizing the role of food safety in public health. Emphasis is placed on the leading causes of foodborne illness and their associated food groups.	201508

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Public Health	Environmental and Occupational Health	PHC	6520	Foodborne Diseases	Provide knowledge about the principles and methods used in foodborne disease epidemiology as well as knowledge of the leading causes of hospitalization, illness, and deaths due to hazards found in foods.	201601
Public Health	Environmental and Occupational Health	HSC	6556	Pathobiology of Human Disease I	A basic study of broad pathobiological areas of biological injury, genetic and inborn errors of metabolism, and host-parasite relationships. In addition, the pathobiology of human disease is closely related to general biology in order to provide a strong foundation for the public health student.	201308, 201408, 201501, 201508
Public Health	Environmental and Occupational Health	HSC	6557	Pathobiology of Human Disease II	Overview of the distinct pathogenesis and etiology and selected acute and chronic diseases and their preventive aspects and impacts on the health care system. Provides basic knowledge of disease and illness patterns and their relationship to health planning.	201305, 201405, 201505
Public Health	Environmental and Occupational Health	PHC	7317	Risk Communication in Public Health	Communicating with the public about environmental and occupational health risks that affect individuals, families, and communities is a central task facing public health professionals. Analyzes the structure, function, content and process of risk communication in order to maximize effective, responsible and ethical public interaction and to describe the issues related to the legal implementation of risk communication in public health organizations.	201401, 201501
Public Health	Environmental and Occupational Health	PHC	7368	Aerosol Technology in Industrial Hygiene	An advanced study of the properties, behavior, and measurement of aerosols, including the physical and chemical principles affecting behavior. Various applications of aerosol technology in industrial hygiene will be investigated, including inhalation and deposition of aerosols, aerosol sampling, and control.	201401, 201501, 201601
Public Health	Environmental and Occupational Health	PHC	6365C	Analytical Methods in Industrial Hygiene I	Analytical measuring methodologies and instruments employed in evaluating exposure to chemical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data.	
Public Health	Epidemiology and Biostatistics	PHC	6050	Biostatistics I	Concepts, principles, and methods of statistics applied to public health issues.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Epidemiology and Biostatistics	PHC	6053	Categorical Data Analysis	Study of techniques used in analyzing data where subjects have been cross-classified by two or more categorical variables. Special emphasis given to problems frequently arising in epidemiology, public health, and medicine.	201308, 201408, 201508
Public Health	Epidemiology and Biostatistics	PHC	6074	Epidemiology of Diseases of Major Public Health Importance	A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods.	201305, 201401, 201501, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Epidemiology and Biostatistics	PHC	6190	Public Health Database Management	This course focuses on the creation of databases with applications to public health and clinical research; data entry and database management and checks for accuracy and consistency, and preparation of final databases for statistical analysis.	201401, 201501, 201508, 201601
Public Health	Epidemiology and Biostatistics	PHC	6701	Computer Applications for Public Health Researchers	Course covers essential computer-based techniques for a public health researcher; data entry, editing, management, subsample selection, and data encryption for confidentiality are all covered. SAS is used extensively. Course open to all graduate students.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Epidemiology and Biostatistics	PHC	7018	Environmental Epidemiology	This course will consider the relationship between environmental (non-occupational) factors and the occurrence of disease in human populations, including the chemical and physical extrinsic agents to which humans are exposed.	201308, 201401, 201408, 201501, 201508, 201601
Public Health	Epidemiology and Biostatistics	PHC	7053	Generalized Linear Models	The course provides an in-depth coverage of the theory of generalized linear models with application in public health. Topics covered are numerical algorithms, exponential family, modeling checking, logistic regression, loglinear models, estimating equations.	201308, 201401, 201408, 201501, 201508, 201601
Public Health	Epidemiology and Biostatistics	PHC	7055	Biostatistical Computing	This course provides a broad foundation in modern biostatistical computing methods relevant to public health research. It prepares Ph.D. students with advanced computing skills for dissertation research. Topics include algorithms in matrix algebra, Newton Raphson, Fisher's scoring, the EM algorithm, bootstrap, random number generation, Monte Carlo Markov Chain, and data augmentation.	201308, 201408, 201508
Public Health	Global Health	PHC	6037	Public Health Virology	A lecture-based course that fosters class participation, critical thinking and literature review. The focus of this course is on human diseases caused by viral infections, with emphasis on diseases of public health importance. There are no restrictions.	201401, 201501, 201601
Public Health	Global Health	PHC	6106	Global Health Program Development and Administration	Program Development and Administration is one of four foundation courses for the concentration in Global Health. As a foundation course, its primary role is to provide students with a solid knowledge base in managing global health programs and projects that will serve them in their field experiences and in any one of the seven focus areas available within the global health concentration.	201308, 201408, 201508
Public Health	Global Health	PHC	6121	Vaccines	Provides an overview of current immunization strategies and their public health rationale. In addition, students will learn the use of vaccines in disease control and eradication, vaccine immunogenicity and adverse reactions.	201308, 201408, 201508
Public Health	Global Health	PHC	6182	Selected Topics In Social Science Education	Public health and other professionals will be given an overview of the disaster management process. Provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.	

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Public Health	Global Health	PHC	6183	Overview of United States and International Emergency/Disaster Management	Public Health and other professionals will be given an overview of the disaster management process. Provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.	201308, 201408, 201508
Public Health	Global Health	PHC	6184	Emergency/Disaster Recovery	The content of this course is designed to expose the concepts of: 1)recovery models used by the United States and International operations, 2)recovery planning and response to a disaster environment, especially in terms of major disaster incidents, 3)broadening and enhancing the understanding of roles and responsibilities, and 4)the importance to the overall recovery effort. In addition to the United States and international focus, the course also addresses the coordination and problem solving aspects of disaster operations.	201401, 201501, 201601
Public Health	Global Health	PHC	6185	Emergency/Disaster Preparedness and Planning	Emergency Preparedness and Planning provides an overview to preparedness strategies, emergency planning and assessment of hazards and resources. This course provides intermediate level direction and builds upon planning concepts learned in Overview of United States and International Energy Management. Studies include in-depth planning and analytical framework, hazard/vulnerability analysis, and management.	201308, 201408, 201508
Public Health	Global Health	PHC	6186	Public Health Emergencies in Large Populations (PHLEP)	To develop or improve the skills of persons interested in providing emergency health services in humanitarian emergencies. The course is divided into two parts: 1)meeting health needs large populations and 2)the humanitarian and ethical issues of refugees and displaced people. Topics covered include food and nutrition, water and sanitation, providing health services, reproductive health, control of communicable diseases, humanitarian law, human rights, ethics, and the geopolitical issues related to population displacement particularly from conflict.	201401, 201501, 201601
Public Health	Global Health	PHC	6231	Organizing Emergency Humanitarian Actions	Topics to be covered in this course include the: use of early warning systems, logistics, security of food, safety, assessment and surveillance, epidemiology, malnutrition, feeding programs, water and sanitation, shelter, and communicable diseases.	201308, 201408, 201508
Public Health	Global Health	PHC	6235	Critical Infrastructure Protection for Public Health Concepts	The content exposes: 1) HS Presidential Directives 7 and 63, 2) critical infrastructures and key resources, 3) public-private partnerships, and 4) vulnerability analysis and risk analysis/reduction.	
Public Health	Global Health	PHC	6236	Business Continuity for Global Health and Security	Course covers effects of the environment on health, business, and national security; fundamentals of Business Continuity Management; development of a Business Continuity Plan and a family emergency plan.	

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Public Health	Global Health	PHC	6251	Disease Surveillance and Monitoring	A review of epidemiological principles and methods used in the development and practice of disease and infection surveillance, prevention and control for public health in general and in the context of the hospital setting in particular. Basic epidemiological concepts will be focused in communicable diseases, nosocomial infections, environmental exposures, and emerging diseases.	201308, 201408, 201508
Public Health	Global Health	PHC	6254	Public Health Implications and Concerns in Homeland Security	Identifies the implications public health presents within the context of homeland security related to public health strategy, interagency capabilities, and the resources that are aimed at preventing and containing risks from tragic events.	
Public Health	Global Health	PHC	6255	Homeland Security: Law, Policy and Public Health	Examines the laws and policy documents that are the foundation of homeland security. It is both broad and in depth. Through rigorous analysis, and regular discussions and short papers, students will learn what makes homeland security happen.	
Public Health	Global Health	PHC	6442	Global Health Applications in the Field	This course prepares students for fieldwork in the global public health arena. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development.	201401, 201501, 201601
Public Health	Global Health	PHC	6510	Exotic and Emerging Infectious Diseases	A study of human infectious disease with particular emphasis on diseases caused by parasites, viruses, bacteria, and fungi found in sub-tropical and tropical environments.	201308, 201408, 201508
Public Health	Global Health	PHC	6511	Public Health Immunology	Immunology as applied to public health. Emphasis is on applications of immunology and immunological techniques used in surveillance, prevention, and control of public health problems.	201401, 201501, 201601
Public Health	Global Health	PHC	6512	Vectors of Human Disease	Biology of the vectors of human disease: major groups include the arthropods, mollusks, and mammals. Emphasis on the ecology of the vectors and their transmission of pathogens as they relate to public health.	201401, 201501, 201601
Public Health	Global Health	PHC	6513	Public Health Parasitology	Human diseases caused by parasite infection with emphasis on diseases related to environmental exposure and of public health importance. Major groups include the protozoan, cestodes, trematodes, and nematodes of human disease.	201308, 201401, 201408, 201501, 201508, 201601
Public Health	Global Health	PHC	6516	Tropical Diseases	The course approaches tropical and infectious diseases from the preventive and global public health perspectives but takes the biological aspects of the host-parasite relationship as bases for its control.	201401, 201501, 201601
Public Health	Global Health	PHC	6517	Infectious Disease Prevention Strategies	This course focuses on surveillance criteria, outbreak criteria, data collection and study design. Also included will be data analysis and reporting; interaction with public health agencies; preparation for Joint Commission on Accreditation of Healthcare Organizations (JCAHO); prevention and intervention; sanitation, disinfection, antisepsis and sterilization; role of immunization, antimicrobial prophylaxis and therapy.	201401, 201405, 201501, 201505, 201601

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Global Health	PHC	6518	EcoHealth & the Ecology of Tropical Infectious Diseases	This course surveys the history of the ecosystem approach to community health and introduces the basic concepts from the emerging "EcoHealth Model" and recent developments in the transdisciplinary field of disease ecology—both environmental and social.	201305
Public Health	Global Health	PHC	6560	The Public Health Laboratory System	This course deals with the roles of the public health laboratory in the Public Health System and thus familiarizes the student with the types, functions and interactions of Public Health Laboratories.	201308, 201408, 201508
Public Health	Global Health	PHC	6561	Laboratory Techniques in Public Health	This is a unique interactive laboratory based course. Each lecture will be supported by a "wet lab" where students would get hands on experience of laboratory research techniques using basic and advanced biochemical and molecular tools.	201308, 201408, 201508
Public Health	Global Health	PHC	6562	Microbiology for Healthcare Workers	An overview of contemporary microbiology, with emphasis on the significance of microorganisms in the environment and clinical disease. The structure, physiology, molecular genetics, taxonomy, immunological and clinical aspects, and public health implications of microorganisms will be covered.	201308, 201408, 201508
Public Health	Global Health	PHC	6601	Human Genomics in Medicine and Public Health	Introduction of modern genetic technologies to health students who have limited training in molecular biology and biochemistry. The course will integrate these rapidly developing technologies into the real world of personal health.	
Public Health	Global Health	PHC	6722	Laboratory Rotations in Global Health Research	Designed to familiarize MSPH students with ongoing research and laboratories within the Department of Global Health. Students will choose from a list of laboratory-projects rotation options.	201401, 201501, 201601
Public Health	Global Health	PHC	6724	Synthesizing Public Health Research	This course is an introduction to interpreting, synthesizing, and making claims about the research in different kinds of public health studies, and citing and referencing the research literature.	201501, 201508, 201601
Public Health	Global Health	PHC	6761	Global Health Assessment Strategies	This course provides a systematic approach for the assessment of public health interventions in low resource countries by providing tools and skills to collect, retrieve, manage, assemble, analyze and communicate information at the community level.	201401, 201501, 201601
Public Health	Global Health	PHC	6762	Public Health Topics in Global Sustainability	The course will address global health problems from the perspective of a sustainable environment and system. Students will learn how this ecosystem is materialized in goods like water, food, housing, transportation and sanitation, key elements of health.	
Public Health	Global Health	PHC	6764	Global Health Principles and Contemporary Issues	This course introduces students to the global context of public health and its dimensions particular to international settings; examines major themes and policies in global health; and analyzes health problems and varying responses globally.	201308, 201408, 201508
Public Health	Health Policy and Management	PHC	6063	Public Health Data, Information and Decision Making	This course provides an understanding of public health databases and methods necessary for decision making. The emphasis is on the appropriateness and application of methods widely used for analysis in public health.	201305, 201405, 201505

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Health Policy and Management	PHC	6104	Management of Public Health Programs	Application of principles and methods for organization and management of government and non-government public health programs.	201305, 201405, 201408, 201505, 201508
Public Health	Health Policy and Management	PHC	6110	International Health and Health Care Systems	Study of global health problems and trends, translated to needs and demands; socio-economic and political impact on health delivery; prevailing international systems compared to U.S. system; the role of international health agencies.	201401, 201501, 201601
Public Health	Health Policy and Management	PHC	6114	Health Insurance and Managed Care	Financing, operations, and regulatory environment of health insurance and managed care, including principles, models, organization, management functions, public policies, and impact on cost, quality and access in communities.	
Public Health	Health Policy and Management	PHC	6146	Health Services Planning and Evaluation	Study of health services planning concepts/methods, and evaluation, with an emphasis on facilities and manpower planning, providing an in-depth orientation to information requirements for health planning, and methods to cover gaps of information.	201305, 201308, 201405, 201408, 201505, 201508, 201601
Public Health	Health Policy and Management	PHC	6147	Managing Quality in Health Care	Study of methods and tools for managing quality in health facilities, physician practices, managed care and public health; including developments in quality assurance and improvement, utilization review, risk management, and patient satisfaction.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Public Health	Health Policy and Management	PHC	6421	Public Health Law and Ethics	This course provides students with an overview of major ethical and legal concepts. The course considers the role of the legal system in resolving public health problems through the legislature, the courts, and administrative agencies.	201308, 201405, 201408, 201505, 201508
Public Health	Health Policy and Management	PHC	6433	Health Economics II	Second of a two part sequence surveying various applications of economic principles and methods to current issues in public health. Emphasis on efficiency goals of health care policy and the use of economic analysis in the design of such policy.	201305, 201405, 201505
Public Health	Health Policy and Management	PHC	6760	Research Methods in Public Health Programs	Improves the students' skills in quantitative research methods that are used evaluating public health programs and health service delivery systems.	201305, 201308, 201408, 201508, 201601
Public Health	Public Health	PHC	5933	Special Topics	Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current public health topics including biomedical issues, social and behavioral factors, and environmental issues.	201305, 201308, 201401, 201408, 201501, 201508, 201601
Public Health	Public Health	PHC	6108	Foundations of Public Health	This course provides the student with an introduction to public health, the public health system, and the role of the public health professional and the pharmacist as it relates to Healthy People 2020 goals and objectives.	
Public Health	Public Health	PHC	6145	Translation to Public Health Practice	Designed to prepare students to translate core public health concepts and principles into real-world public health practice. This course is designed to provide students with hands-on experience pertaining to translation of core public health concepts and principles.	

College	Department	Crse Prfx	Crse.	Course Title	Description	Term Taught
Public Health	Public Health	PHC	6300	Principles of Environmental Health	This course provides information regarding fundamental topics in environmental and occupational health including air pollution, water pollution, solid and hazardous waste, and environmental health law and ethics.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Public Health	PHC	6307	Principles of Exposure Assessment & Control	The student learns the principles and details of processes involved in assessment of inhalation, ingestion, and dermal contact exposures to chemical and biological agents encountered in environmental and occupational settings.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Public Health	PHC	6325	Environmental Laboratory Principles	This course familiarizes students with analytical measurement methodologies in quantitative sampling and analysis of air, water, soil contaminants, and analytical chemistry generally.	201308, 201401, 201408, 201501, 201508
Public Health	Public Health	PHC	6462	Cultural Competency in Public Health Practice	An overview of the knowledge and skills needed to work in multicultural environments and apply the principles of cultural competency. Designed to critically examine this construct by incorporating anthropological perspectives and techniques.	201505
Public Health	Public Health	PHC	6588	History & Systems of Public Health	An overview of the public health profession, including core functions and values, essential services, history, current challenges, and US and global public health systems.	
Public Health	Public Health	PHC	6756	Population Assessment: Part 1	Fundamentals of population assessment in public health including concepts and skills in systems thinking, public health biology, health behavior, environmental health, health policy, global health, epidemiology, and biostatistics. Part 1 or 2.	
Public Health	Public Health	PHC	6757	Population Assessment: Part 2	Fundamentals of population assessment in public health including concepts and skills in systems thinking, public health biology, health behavior, environmental health, health policy, global health, epidemiology, and biostatistics. Part 2 of 2.	
Public Health	Public Health	PHC	6766	Global Health Challenges: In-Country Case Study (Field Course)	This travel abroad course compares the practice and venues of public health as they occur in another country with those in the United States. Health issues unique to and associated with the country are examined.	201305
Public Health	Public Health	PHC	6907	Independent Study: Public Health	Independent study determined by the student's needs and interests.	
Public Health	Public Health	PHC	6930	Public Health Seminar	Interaction of faculty, students and select health professionals in relation to public health issues and research.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Public Health	PHC	6934	Selected Topics in Public Health	The content of this course will be governed by student demand and instructor interest.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601

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Public Health	Public Health	PHC	6936	Public Health Capstone	The capstone course is designed to provide a culminating highly interactive experience for students and to allow for the synthesis and application of public health core disciplines in situations simulating the actual practice of public health.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Public Health	PHC	6945	Supervised Field Experience	Internship in a public health agency or setting. Application of administrative, program, and/or research models now employed in government and private public health organizations.	
Public Health	Public Health	PHC	6971	Thesis: Master Of Science in Public Health	Research-oriented study for students seeking the M.S. degree in Public Health.	
Public Health	Public Health	PHC	6977	Special Project: MPH	In-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Public Health	PHC	7067	Probability Models	Probability theory and models with applications in Public Health. Contents: fundamental probability theories; stochastic process; probability modeling with application to health data.	201308, 201408, 201508
Public Health	Public Health	PHC	7908	Specialized Study in Public Health	Demonstration of an in-depth study in a specialized public health area. This study may be used to address areas where a student needs to demonstrate a higher level of competency.	
Public Health	Public Health	PHC	7931	Advanced Interdisciplinary Seminar in Public Health	Students, faculty and other health professionals will participate in presenting and discussing contemporary health issues and possible solutions.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
Public Health	Public Health	PHC	7935	Special Topics In Public Health	Content will include recent or current issues in public health.	201305, 201308, 201401, 201405, 201408, 201501, 201505, 201508, 201601
The Arts	Architecture and Community Design	ARC	5216	The Building Arts	Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.	
The Arts	Architecture and Community Design	ARC	5364	Advanced Design A	Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.	201305, 201401, 201405, 201501, 201505, 201601

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The Arts	Architecture and Community Design	ARC	5365	Advanced Design B	Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.	201305, 201308, 201405, 201408, 201505, 201508
The Arts	Architecture and Community Design	ARC	5467	Materials and Methods of Construction	Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.	201401, 201501, 201601
The Arts	Architecture and Community Design	ARC	5470	Introduction to Technology	Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.	201308, 201408, 201508
The Arts	Architecture and Community Design	ARC	5689	Environmental Technology	Comprehensive overview of mechanical systems for buildings including: water and waste; fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.	201401, 201501, 201601
The Arts	Architecture and Community Design	ARC	5731	Architectural History I	Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.	201305, 201308, 201405, 201408, 201505, 201508
The Arts	Architecture and Community Design	ARC	5732	Architectural History II	Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.	201401, 201501, 201601
The Arts	Architecture and Community Design	ARC	5789	Modern Architecture History	Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.	

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The Arts	Architecture and Community Design	ARC	5794	Florida Architectural History	An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.	
The Arts	Architecture and Community Design	ARC	6372	The Neighborhood	Introduces students to the range of urban and suburban neighborhood typologies. We will discuss the purpose of the neighborhood as a physical and social construct, the history of neighborhoods, and the meaning of the neighborhood in present.	
The Arts	Architecture and Community Design	ARC	6373	Community Design Studio	(Varies depending on topic) The Community Design Studio is a six credit hour physical design lab course. Its focus is on design at the scale of urbanism – the metropolitan region, the city, the district, the block, the street, and the building complex.	
The Arts	Architecture and Community Design	ARC	6397	Introduction to Urban Design Theory, Methods & Processes	Introduction to the concepts, methods, and manifestations of urban design and city-building. Focus on both traditional city and modern city conditions. Student will gain a basic understanding of the design structure, order, function and character of cities and towns and assess various qualitative aspects of these conditions. Relationships between processes of architecture, landscape architecture, site planning, preservation and other relevant acts of city-building will be considered as referential points-of view in assessing certain complexities of urban morphology.	
The Arts	Architecture and Community Design	ARC	6398	Introduction to Community and Urban Design	Introduce community and urban design as an academic discipline and professional practice that incorporates architecture, planning, landscape architecture, real estate development, and engineering. Major topics include urban form, function, and perception.	201305, 201308, 201405, 201408, 201505, 201508
The Arts	Architecture and Community Design	ARC	6481	Design Development	The summary course of the building technology sequence in which construction, structural and environmental technologies are integrated within an architectural design project. Emphasis is placed on poetic and technical aspects of building systems.	201305, 201308, 201405, 201408, 201505, 201508
The Arts	Architecture and Community Design	ARC	6692	Advanced Topics In Environmental Technology	Analysis and preliminary design of advanced environmental control systems; specific focus on architectural applications; integration with structural and construction systems. Research of special aspects of ET systems, computer simulation and analysis techniques.	
The Arts	Architecture and Community Design	ARC	6930	Special Topics in Urban and Community Design	Special topics related to urban and community design and planning issues.	
The Arts	Art and Art History	ARH	5836	Collection and Exhibition Management	This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.	

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The Arts	Art and Art History	ART	6688	Electronic Media	Advanced projects in the exploration of the issues and practices involved in the creation of experimental computer art at the graduate level. Emphasis on individual creative expression. May be repeated.	
The Arts	Music/Music Education	MUC	6444	Electronic Music/Analog/Digital Systems Research I	State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.	
The Arts	Music/Music Education	MUC	6445	Electronic Music/Analog/Digital Systems Research II	State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.	
The Arts	Music/Music Education	MUC	6448	Electronic Music: Computer Music Research	For advanced students already experienced in Electronic Music, this class focuses on creative and research techniques in Computer Music, with special emphasis in multimedia collaboration across disciplines.	
The Arts	Music/Music Education	MUE	7935	Seminar on Music in Higher Education	The course will examine issues germane to the ways and contexts (liberal arts college, land grant college, research university, conservatory) in which music functions as a discipline in American higher education. It will trace its roots from the medieval European university (in the quadrivium) to the present. It also will speak to a range of contemporary issues, including but not limited to rank, promotion, tenure, creative activities as a research endeavor, accreditation, curricular innovation, etc.	
Hospitality & Tourism Leadership	Hospitality Management	HMG	6246	Organizational Effectiveness in Hospitality	Examine organizational effectiveness methodologies including Continuous Quality Improvement, Six Sigma, Geri, Hospitality Leadership and Sustainability as they relate to human resources leadership and effectiveness in the hospitality industry.	
Hospitality & Tourism Leadership	Hospitality Management	HMG	6257	Graduate Seminar in Hospitality Management	Examine the technical & managerial aspects in hospitality mgmt. Review & examine business departments of enterprises in assessing mgmt's goal of effective & efficient control. Discussions include energy conservation, waste mgmt & pollution control.	
Hospitality & Tourism Leadership	Hospitality Management	HMG	6267	Graduate Seminar in Restaurant and Foodservice Management	This seminar course allows students to apply the principles of management, analysis, and planning that they have learned in their prior required coursework to issues in multi-unit restaurant and foodservice operations.	
Hospitality & Tourism Leadership	Hospitality Management	HMG	6507	Hospitality & Tourism Information Systems & Technology	Diverse facets of hospitality/tourism information systems and technology will be discussed. The role of Chief Information Officer (CIO), concept of open system planning & managing e-commerce, global distribution systems, resources appl. software, etc.	
Hospitality & Tourism Leadership	Hospitality Management	HMG	6555	Electronic Marketing for Hospitality & Tourism	Focusing on advanced electronic marketing theory, strategy, & techniques for the hospitality industry. Highlighting critical issues facing e-marketers in the industry, legal/ethical implications, database, consumer information & corporate e-responsibility.	
Hospitality & Tourism Leadership	Hospitality Management	HMG	6596	Marketing Leadership for Hospitality & Tourism	Advanced marketing strategies and tactics known to be effective in the hospitality and tourism industry for developing sustainable competitive advantage such as strategic pricing, revenue management, customer loyalty programs, proven communication mixes.	

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Arts & Sciences	Geography & Environmental Science and Policy	EVR	5956	Methods of Sustainable Development	Sustainable development includes preservation of natural resources, aspects of social justice and preservation of communities while pursuing economic growth. This course focuses on sustainable development theory, especially at the international level.	
Arts & Sciences	Geography & Environmental Science and Policy	GEO	6113	Qualitative Research Methods	This course explores a variety of qualitative research methods utilized by scholars in the social sciences and environmental studies, to include interviews, mapping, participant observation, surveys, visual techniques and document and archival analysis.	
Arts & Sciences	Geography & Environmental Science and Policy	EVR	6115	Global Climate Change	This course examines physical processes of global climate change.	
Arts & Sciences	Geography & Environmental Science and Policy	EVR	6116	Coastal Hazards and Resilience	Vulnerability to natural hazards and the effects of climate change, including sea level rise has greatly increased. This course examines the vulnerability of coastal communities and strategies for adaptation and resilience.	
Arts & Sciences	Geography & Environmental Science and Policy	SCE	6346	Foundations of Environmental Education Theory	This course explores the history and goals of environmental education, with an emphasis on the professional roles and instructional methods of environmental educators.	
Arts & Sciences	Geography & Environmental Science and Policy	SCE	6644	Interpreting and Teaching the Environment	An introduction to interpretation as it relates to environmental education, including theories, principles, and techniques of interpreting park, cultural, and natural resources to the public.	
Arts & Sciences	Geography & Environmental Science and Policy	EVR	6876	Wetlands, People and Public Policy	This course begins with a review of the basic physical characteristics of wetlands, but the emphasis is upon human relationships with wetlands, past and present. Discussion of contemporary economic, legal and political issues associated with wetlands.	
Arts & Sciences	Geography & Environmental Science and Policy	EVR	6931	Environmental Soils, Water and Land Use	This course gives an overview of the relationships between soils, water, and land-use. Students will also be exposed to contemporary science-based and technological solutions used for environmental applications.	
Arts & Sciences	Geography & Environmental Science and Policy	EVR	6946	Major Themes in Environmental Science	This is a seminar course that reviews major themes in environmental science that integrates knowledge and research from various scientific disciplines. This course adopts and implements an interdisciplinary and integrative approach.	
Arts & Sciences	Mass Communications	JOU	6114	Multimedia Reporting	This course teaches the writing and visual skills specific to journalism across all digital media platforms. It makes a decisive break with traditional print and frames the future of the reporter as digital and global.	
Arts & Sciences	Mass Communications	VIC	6310	Visual Information Design	This course teaches practical applications of information designs in an exclusively digital media environment. Students learn to create information images in all their forms, from the static to motion graphics, but all for online presentation.	

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Arts & Sciences	Mass Communications	JOU	6503	Entrepreneurial Journalism	Most future journalists will be independent entrepreneurs. Students will explore how media management and community business leaders collaborate and explore emerging economic models of independent journalists operating in the digital media environment.	
Business	Accounting	ACG	6496	Computer Forensics and Accounting	Introduces the current IT audit, forensic and investigative software and processes used to explore contemporary accounting systems and databases. Students are exposed to electronic and other means of surveillance in use today.	
Business	Accounting	ACG	6688	Forensic Accounting and the Legal Environment	Designed to further the student's knowledge of the contemporary legal environment faced by forensic accountants.	201601
Business	Business Administration	ISM	5001	MBA Essentials: Management Info Sys	Overview of the role that information systems play in today's rapidly changing business environments, supporting routine business operations, facilitating management decision-making, and enabling more organic organizational forms.	
Business	Business Administration	MAN	5002	MBA Essentials: Management	A basic conceptual overview of management principles. Topical coverage includes ethics, globalization, strategic management, leadership, and individual and group decision making.	
Business	Business Administration	GEB	6368	Global Business Environment	An overview of how international business operates in the changing global environment. The course looks at emerging patterns of international trade, foreign investment and international competitiveness for both large corporations and small firms.	
Business	Business Administration	GEB	6458	Managing Global Sustainability	A course that focuses primarily on the business perspective of business sustainability so that students can better understand the business rationale for sustainability. The course will examine business as it addresses the environment and sustainability.	
Business	Business Administration	ENT	6507	Social Entrepreneurship in Emerging Markets	This course explores fundamental business approaches and issues in the emerging markets of Latin America with special emphasis on the link between sustainable economic development and the development of entrepreneurial skills in women.	
Business	Business Administration	ENT	6508	Social Entrepreneurship I	A course focused on the design and growth of mission-driven enterprises that use market-based approaches to solve today's social or environmental problems.	
Business	Business Administration	BUL	6652	Regulatory & Reporting Environments	Discusses various ways in which companies are regulated, including public, private and self-regulatory matters. Voluntary and involuntary regulation is discussed, as well as ethical issues. Review of securities and other reporting requirements are analyzed. Private regulation is considered, such as encountered in contractual relationships, professional organizations and industry groups is studied. Management issues due to securities and exchange laws (compliance, reporting & other communications), corporate governance matters (legal aspects, stakeholders, independence, transparency), and other legal matters (agency, workplace equity, governmental regulation) are covered. Other economic, social, cultural, environmental and political impacts are considered as affecting the contemporary business organization.	

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Business	Management	MAN	6068	Social Issues in Management	An examination of issues that impact the moral and legal behavior of organizations and their stakeholders, including management, shareholders, unionized labor, white collar workers, suppliers, customers, consumers, and the environment.	
Education	Elementary Education	SCE	6855	Teaching Biology & Ocean Science in Elementary	This is a graduate level course for elementary school teachers to further their knowledge and pedagogy in teaching the Life Sciences concepts comprising the Next Generation National Science Standards.	
Education	Secondary Education	SCE	6876	Teaching Biology & Ocean Science in Middle Grades	This is a graduate level course for middle school teachers to further their knowledge and pedagogy in teaching the Life Sciences concepts comprising the Next Generation National Science Standards.	